

IN THE UNITED STATES DISTRICT COURT
FOR THE EASTERN DISTRICT OF TEXAS
MARSHALL DIVISION

TQ DELTA, LLC., (CAUSE NO. 2:21-CV-310-JRG
(Lead Case)
Plaintiff, (
)
vs. (
)
COMMSCOPE HOLDING COMPANY, (
INC., et al.,)
(
Defendants.)

TQ DELTA, LLC., (CAUSE NO. 2:21-CV-309-JRG
(Member Case)
Plaintiff, (
)
vs. (
)
NOKIA OF AMERICA CORPORATION, (
et al.,) MARSHALL, TEXAS
(JUNE 1, 2022
Defendants.) 9:00 A.M.

MARKMAN HEARING

BEFORE THE HONORABLE RODNEY GILSTRAP
UNITED STATES CHIEF DISTRICT JUDGE

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1 THE COURT: Be seated, please.

2 All right. This is the time set for claim construction
3 in a series of consolidated cases. The cases before the Court
4 today include the lead case styled TQ Delta versus CommScope
5 Holding Company, Inc., et al., Case No. 2:21-CV-310.
6 Consolidated with it as a member case is Case No. 2:21-CV-309,
7 styled TQ Delta versus Nokia Corp, et al. And consolidated
8 with it as a second member case is Case No. 2:21-CV-309,
9 styled Nokia of America Corp versus Broadcom Corp, et al.

10 And at this time, the Court will ask for announcements on
11 the record from the parties before we proceed to take up the
12 disputed claim terms.

13 What says the Plaintiff TQ Delta?

14 MR. DAVIS: Good morning, Your Honor. Bo Davis on
15 behalf of Plaintiff TQ Delta. With me at counsel table is
16 Mr. Rudolph Fink, Mr. Christian Hurt, Mr. Pete McAndrews, and
17 from TQ Delta we have representative, Ms. Alba Divine. And we
18 are ready to proceed, Your Honor.

19 THE COURT: All right. Thank you, Mr. Davis.

20 What's the announcement from the CommScope Defendants?

21 MR. FINDLAY: Good morning, Your Honor. Eric
22 Findlay, Doug Kline, and Andrew Ong on behalf of the CommScope
23 Defendants. We are ready to proceed, Your Honor.

24 THE COURT: All right. What's the announcement from
25 the Nokia parties?

1 MR. AHNHUT: Good morning, Your Honor. Adam Ahnhut
2 on behalf of the Nokia Defendants. And with me is Scott
3 Stevens, John Haynes, Karlee Wroblewski, Nic Marais, Katie
4 Donald, and Mr. Kirk Bradley, and a summer associate as well
5 from our offices, Gina Campanelli. And we are ready to
6 proceed.

7 THE COURT: All right. Thank you, Mr. Ahnhut.
8 What's the announcement from Broadcom? Do we have
9 Broadcom represented here today, or what's that status?

10 MR. DAVIS: I don't see Broadcom in the courtroom,
11 Your Honor. I don't believe they're here.

12 MR. STEVENS: That's My understanding as well.

13 THE COURT: Okay. Has anyone failed to announce on
14 the record that's represented here today? Okay. I'll assume
15 not.

16 And we'll proceed, counsel, with disputed claim terms
17 before the Court.

18 As you-all are already very much aware, there is a huge
19 amount of material here. The Court has allocated three hours
20 for claim construction, and we'll cover as much of it by way
21 of oral argument as we can. Any disputed terms not reached
22 for oral argument today the Court will take up and decide on
23 the briefing and the papers. I have advised you by email as
24 to the order of the disputed terms and we'll follow that order
25 through the process this morning.

1 With that, let's begin with the disputed term
2 'transceiver'.

3 Let me hear from the Plaintiff first, followed by the
4 Defendants.

5 MR. FINK: Thank you, Your Honor. Rudy Fink for
6 TQ Delta for the term 'transceiver'.

7 The dispute in this term is fairly narrow, Your Honor.
8 The parties agree the first part of the construction, the
9 difference here is this highlighted portion which is, 'wherein
10 the transmitter portion and the receiver portion share at
11 least some common circuitry'.

12 Plaintiff's construction is the same construction that
13 the Court in Delaware adopted. This exact same dispute was
14 before Judge Andrews in Delaware. He resolved it in
15 TQ Delta's favor. This term is substantially through most of
16 the patents. I think it's in about 18 of the 22 patents that
17 are involved in this litigation. We believe that the Delaware
18 Court's construction was correct--transceiver is a portmanteau
19 of a transmitter and a receiver, in the same way like a
20 motorcycle is a portmanteau of the terms motor and bicycle.

21 It -- basically, a portmanteau here means something that
22 fundamentally is both things; it's not a distinct and separate
23 entity from both a transmitter or a receiver. And so we
24 believe that this construction that incorporates this common
25 sharing of circuitry captures this distinction where both

1 things are combined into one at least and a nod to that as a
2 part.

3 This construction is supported both by the -- extensively
4 by the record here, a transceiver -- this is from the IEEE
5 dictionary, I believe, or it's -- basically says it's a
6 transmitter/receiver that uses many of same components for
7 both-transmission and reception. This is another dictionary
8 that says that it's -- basically it employs common
9 circuits--here down at the bottom--or components or
10 transmitting. Again, this is going back to that thing where
11 it is both a transmitter and receiver; it shares those
12 elements.

13 Defendants' own extrinsic evidence supports TQ Delta's
14 construction. As part of the Court's 4-2 rule, Defendants
15 were asked to provide or given the option of providing
16 dictionary definitions that they contended supported their
17 respective claim construction position. Here, as you can see,
18 Defendants' evidence is that the -- over on the right, that
19 the transmitter receiver uses many of the same components for
20 both transmission and reception; again, that shared circuitry
21 that the Delaware court's construction captured.

22 Similarly, their other definition is a radio
23 transmitter/receiver that's combined into one unit, that it
24 shares that.

25 They also provided a citation here to the patent, and

1 that patent also then discusses shared memory, shared
2 components that are also part of that construction. This is
3 further reflected in the figures of the patents, just as a
4 general matter, that here it shows from figure 1 of the '5473
5 and several other patents, shared components all within a
6 transceiver as an element.

7 Similarly, as another figure shown in most of the other
8 patents, the transceiver also contains a number of various
9 different shared components.

10 Respectfully, Defendants' construction reads out the
11 shared nature. In sense, it would convert the motorcycle,
12 which is fundamentally a device that has both -- you know,
13 that is a motorcycle that's combined in that way to something
14 that just happens to have a motor and happens to be a bicycle.
15 And we do not believe that this is appropriate; that the
16 transceiver construction captures this sort of fundamental
17 intertwining of the nature of a transceiver rather than going
18 back to the historic separate transmitter and separate
19 receiver.

20 And also we believe that it adds a tangibility that's
21 important and helpful to the jury; that it provides a
22 physicality of circuitry and a physicality of this connection
23 rather than just an abstract device of some kind that's
24 capable of. So, for instance, say your finger is capable of
25 transmitting and receiving information, but here this is

1 providing circuitry that captures that definition that's, we
2 believe, well-understood.

3 And if there's nothing further, Your Honor, given the
4 number of terms, we'll move on.

5 THE COURT: No, I think that's fine, Mr. Fink.

6 I think at this point it would be helpful for the
7 Defendants to give me their version, so let me hear from the
8 Defendants.

9 MR. FINK: Thank you, Your Honor.

10 MS. WROBLEWSKI: Good morning, Your Honor. Karlee
11 Wroblewski on behalf of Defendants.

12 THE COURT: Tell me why Judge Andrews got it wrong?
13 Did he just rely too much on dictionaries, or what was the
14 problem?

15 MS. WROBLEWSKI: So, yes, at the end of the day,
16 Judge Andrews relied on extrinsic evidence to define what we
17 believe has a clear plain and ordinary meaning based on the
18 intrinsic record.

19 THE COURT: I mean, if something is a well-known
20 term in the art, that usually means dictionary input is
21 relevant. It's only when it's not well-known and understood
22 that dictionaries don't give you much guidance. Why would the
23 sources that he relied on be erroneous here?

24 MS. WROBLEWSKI: So we believe that transceivers
25 sometimes do include common circuitry and that does not depart

1 from the dictionary definitions, but what we have here if we
2 turn to the intrinsic record of the specification is a
3 definition of transceivers where transceivers are generically
4 being referred to as modems. And specifically here in columns
5 2, 1 through 5, we see that a modem, this generic term 'modem'
6 includes a transmitter section for transmitting data and a
7 receiving section for receiving data. And ultimately, while
8 these definitions include transceivers, that would, in fact,
9 include common circuitry, as we saw in the dictionary
10 definitions. It's not necessarily the case that that is a
11 requirement of what a transceiver is.

12 And, indeed, TQ Delta's expert agrees that this isn't
13 always required. In the -- Doctor Cooklev's declaration, he
14 indicated that typically a transceiver would include a
15 transmitter portion and a receiver portion with common
16 circuitry. But the fact that the term 'typically' here is
17 used indicates that it's not always required. And while
18 'transceiver', as it's used in the patent, may involve the use
19 of common circuitry, it does not always.

20 THE COURT: Your proposed construction doesn't
21 address the common circuitry issue at all. In light of your
22 argument that you're not saying it never does, you're just
23 saying it may not always, why did you not propose something
24 like what you have together with 'which may, but does not
25 always involve some common circuitry'? I mean, was there a

1 reason you left that concept out completely in your proposal,
2 given that that's really what we're focused on and given that
3 you're telling me some of the time it does involve common
4 circuitry?

5 MS. WROBLEWSKI: I believe that would be fine. We
6 did not include that because that's not what we understand as
7 being the plain and ordinary meaning of the term. The term
8 'transceiver'--'trans' involving transmitting, 'ceive'
9 involving receiving--so we did not include that in our
10 proposed definition, but if we, you know, had a definition
11 that indicated that sometimes common circuitry is involved and
12 sometimes it isn't, I think that would be fine.

13 THE COURT: All right. What else do you have for
14 me? Don't feel compelled to go through every one of your
15 slides.

16 MS. WROBLEWSKI: Yeah. I only have one more, so
17 hopefully it will be brief.

18 Just this slide indicates that parties have agreed in the
19 past that the plain and ordinary meaning of 'transceiver'
20 does -- is, in fact, consistent with the proposal that we've
21 included here. So on the left side we see that the parties
22 agreed in this lower paragraph that a device that transmits
23 and receives data -- or 'transceiver' is a device that
24 transmits and receives data. And over here on the right in
25 *Calypso Wireless versus T-Mobile*, we again see that a first

1 transceiver was simply defined as a combination transmitter
2 and receiver, and is otherwise silent to whether or not a
3 common circuitry is, in fact, required.

4 THE COURT: All right. Thank you, counsel.

5 Let's move to the next disputed terms 'configurable to',
6 'operable', and 'operable to'.

7 Let me hear from Plaintiff first.

8 And I'll note that it appears that the Delaware court has
9 given some guidance here, although not directly on point and
10 perhaps in not exactly the same context as we have here.

11 Go ahead, Mr. Davis.

12 MR. DAVIS: Thank you, Your Honor. Bo Davis for the
13 Plaintiff.

14 And yes, we have 'configurable to'/'operable to'. We
15 proposed that it means 'able to be configured'; Defendants
16 have said 'not mere capability'. I'm showing here on this
17 slide, Your Honor, just the I guess prevalence of this term
18 throughout the claims. Its shows up in almost all of the
19 families in either the 'configurable to' or 'operable to' form
20 of the claim. And really the issue here is whether these
21 claims are directed to capabilities or whether they are
22 directed to capabilities of a device or whether they're
23 directed to actual operation.

24 And we proposed yes, they are directed to capable.
25 Defendants have said 'not mere capability', but what they've

1 also said in their brief is that the terms at issue here
2 require actual operation. And I think that's really the part
3 of their understanding of what 'not mere capability' is that
4 gives us the most concern.

5 Words ending in 'able' typically mean 'able to be'. They
6 are directed to capabilities. If the term means 'in operation
7 to', then what that means is -- according to the Defendants is
8 that 'not mere capability', but that it's actually being used
9 in a way that addresses the functionality.

10 And where this issue plays out throughout the course of
11 the case is that the devices that are sold, the transceivers
12 that are sold, whether they are on the customer side or the
13 operator side, have functionality in them that comply with
14 standards, the standards that are at issue in the case. And
15 if they've got that functionality, and the Defendants are
16 correct that these terms are directed to the operation of
17 them, then the issue becomes, well, is that functionality --
18 has it actually been turned on or not when it's sold. And so
19 that obviously creates issues for infringement, it creates
20 issues for damages, and so, you know, it's a significant term.

21 The Delaware court has addressed this concept of whether
22 the claims are directed to capabilities or not in a number of
23 different opinions, and what you'll see is that there are some
24 earlier opinions where the court was trying to address really
25 what does it mean for something to be capable of, and

1 addressing it the way that some courts have addressed it in
2 terms of a negative limitation that precludes a certain amount
3 of modification.

4 So, in other words, if you have a device that is capable
5 of doing something without being modified, without rewriting
6 the code, rebuilding the hardware, then that is capable, but
7 if the native functionality is present in the device when it's
8 sold, regardless of whether it's -- you know, when it's turned
9 on, whether it's turned on out of the box or turned on by the
10 end user, then that fits within the meaning of capability.

11 And in one of the earlier decisions, this is from 2018,
12 where the Court was construing the term 'plurality of bonded
13 transceiver', so it wasn't even addressing the term
14 'configurable to' or 'operable to', he recognized that even in
15 this case, Judge Andrews recognized that a plurality of bonded
16 transceivers is directed to something that encompasses
17 configurability. And as part of his construction, he said the
18 transceiver is configurable to do something, and then he
19 provided a negative limitation that doesn't require 'in
20 operation', but what it requires is -- or what it excludes is,
21 you know, rebuilding, recoding, redesigning any of the
22 components in a plurality of bonded transceivers. And we
23 agree with this concept of configurability that the claims are
24 directed to that.

25 In family 6 in the context of summary judgment, the court

1 actually did construe the words 'configurable to' and also
2 'configured', past tense, to say that the claims require
3 hardware and software for performing the functionality, which
4 addresses capability, which includes capability to a certain
5 extent. We're not talking about any capability in the sense
6 that anything is possible, but if there -- if it's capable to
7 do this without rebuilding, rewriting, recompiling the code or
8 redesigning any of the hardware or software, then that's
9 capability.

10 So he essentially provided a plain meaning construction
11 that excludes certain fundamental changes to the device, but
12 he included functionality that's in the device natively when
13 it's sold, regardless of whether or not it's in operation as
14 sold.

15 THE COURT: What's your view as to the relation
16 between 'operable', 'operable to', and 'capable'? Are you
17 equating the two?

18 MR. DAVIS: Yes, Your Honor, we are. We're treating
19 them all the same. We've treated them the same. Defendants
20 have treated them the same. That's why these terms are
21 grouped together. There's been no argument from either side
22 that the terms should be configured differently. I believe
23 that both terms are equally directed to and casting the net
24 around capabilities of a device as opposed to something that,
25 you know, must be in operation as it's sold.

1 THE COURT: I understand the dispute between whether
2 it infringes sitting in the box or it has to be taken out,
3 plugged in, turned on, so forth and so on, I understand that.

4 MR. DAVIS: Yes, Your Honor.

5 THE COURT: But to say something is operable seems
6 to me to be something different than saying it's merely
7 capable of. You know, there are a lot of things that may be
8 capable of other unintended uses, but they're operable for
9 their intended use. I can use a rifle as a club, but it's
10 intended to shoot a projectile.

11 I have some discomfort with the absolute equality that
12 you're proposing between 'operable' and 'capable'.

13 MR. DAVIS: I understand, Your Honor. And we are
14 not intending to make a distinction along the lines of the
15 example you just provided. The issue that we're concerned
16 with is primarily the Defendants' I guess interpretation of
17 'not mere capability', which is their negative limitation, to
18 mean that the term requires that it be in operation to. And
19 so, you know, as opposed to being operable to, able to operate
20 in an infringing manner, that we believe is covered by the
21 capability of the device, but we're not in a situation where
22 we're saying that a rifle is operable as a club. That's not
23 the situation. I mean, these devices are built for, designed
24 for a specific purpose, a specific type of operation, and the
25 issue -- the reason we have a claim dispute here is because

1 the Defendants essentially mean by 'not mere capability' that
2 it must actually be operating. That's really the distinction.

3 THE COURT: I think we're talking about two
4 different things. My worry is that in addressing what you're
5 concerned about we open the door to what I'm concerned about,
6 and I'm trying to get some input as to how to draw the line
7 here.

8 MR. DAVIS: Well, and, you know, one of the -- I
9 guess one of the concepts that I think addresses the issue
10 that Your Honor's concerned about is, is it operable to be
11 used in the way it was designed to be used or intended to be
12 used. So this intent aspect, I believe -- you know, that's
13 not our concern. We believe that, you know, the devices are
14 intended to be used a certain way.

15 So, you know, to the extent that that gives the Court
16 concern, we are not proposing something that would encompass
17 mere capability in the sense that you have a device, it's
18 designed for a specific purpose, but you're using it for
19 another purpose.

20 And again, Your Honor, in family 10, the Delaware court
21 tried to address this issue, and I think what you're
22 articulating is consistent with what -- the concern of the
23 Delaware court and why the Delaware court at least articulated
24 the issue in this way. He said that 'operable to' requires
25 something more than 'capable of', but he didn't require that

1 it meant 'in operation to' in his construction.

2 And in this -- the court went on to actually grant
3 summary judgment of non-infringement, but it was in a specific
4 circumstance where the device wasn't configured or capable of
5 operating without modification. So, in other words, you would
6 have had to modify the device through a command line
7 interface, a password-protected feature, something like that.

8 So there are these -- there is a situation where the
9 court did say narrower than 'capable of' but, you know, again,
10 there's a bit of a -- I guess a disconnect or a diversion
11 between some of what the Court has said in Delaware and
12 statements like this, Your Honor.

13 Again, and I do want to point this out, we recognize that
14 at least in the family 9 context the Delaware court did
15 construe 'operable' to mean 'in operation to' in the context
16 of granting summary judgment of no infringement on that
17 patent. However, we respectfully disagree. We just don't
18 believe that 'operable to' means 'in operation to' in the
19 sense that out of the box the functionality must be turned on,
20 so-to-speak.

21 THE COURT: What else, Mr. Davis?

22 MR. DAVIS: Well, Your Honor, in the *Huawei* case I
23 believe you addressed a very similar issue. The term here was
24 'adapted' and 'configured', past tense, as opposed to
25 'operable to' or 'configurable to'. But even here, Your

1 Honor, what you -- what the Court held was that this language
2 isn't mere capability of performing the functions in the
3 abstract, which I believe is like your golf club rifle
4 example. In the abstract, sure, you can take a rifle and use
5 it as a golf club, but that's not what it was designed to do.
6 So we don't believe that this case holds that the claims must
7 be construed to mean 'in operation to'.

8 And we have other cases from this Court, like the *e-Watch*
9 case where the Court recognized that the claim at issue there,
10 which included the language 'operable to' was -- when it used
11 the word 'operable to', it was directed to capabilities. And
12 here the Court says, "For example, claim 1 of the '168 Patent
13 recites, 'an image collection device being operable to provide
14 visual image data,'" and goes on to list various other
15 iterations of this 'operable to'. And the Court said, that
16 language, 'operable to', is addressed to capabilities.

17 In the *Iron Oaks* case from the Federal Circuit, the same
18 word, term, 'operable to' was at issue, operable to do
19 something, perform a function, and the Federal Circuit agreed
20 that -- agreed with the board in that case that a second
21 mobile unit that is capable of creating patched operating code
22 in some circumstances still satisfies the claim that it simply
23 must have the capability of performing the function.

24 And finally, Your Honor, there is a whole slew of cases
25 such as the *Finjan* case where it's not a claim construction

1 issue, it's a summary judgment infringement issue, but it does
2 stand for the general proposition that apparatus claims are
3 directed -- when they're directed to capabilities don't
4 require actual operation. And we believe that's the problem
5 with their construction. We believe that's what they're
6 advocating for--that these claims require actual operation,
7 and we respectfully request that the Court reject that
8 limitation.

9 That's all I have, Your Honor.

10 THE COURT: All right. Thank you, counsel.

11 Let me hear from the opposing parties. Go ahead,
12 Mr. Stevens.

13 MR. STEVENS: Thank you, Your Honor. Scott Stephens
14 for Defendants.

15 So the dispute that you just heard is actually not a
16 dispute in this case. We're not going to say -- to Your
17 Honor's analogy, we're not going to say that the gizmo has to
18 be taken out of the box, plugged into a wall, and actually in
19 operation. We've discussed through the meet and confer
20 process that that is not what we're saying in this case. What
21 we're saying in this case is to be configured to or operable
22 to or in operation to requires the device as shipped be able
23 to meet those claim languages; that you can't rewrite the
24 source code, change the hardware.

25 I think Mr. Davis said, if I heard him correctly, that

1 his construction does not incorporate rebuilding, rewriting
2 code, redesigning the product, using a command line interface
3 to modify the product, or given access to password-protected
4 features. If that's all true and that's what we're going to
5 hear consistently through the case, I'm not sure there's much
6 of a dispute on this term.

7 What we are worried about is that there are certain parts
8 of the standard that are optional; that are not actually
9 implemented in the chip sets that we purchase or in the
10 products that we deliver to the customer. Now, hypothetically
11 could that decision have been different? Could the people
12 that wrote the source code have written the source code
13 differently and implemented it on the same chips and on the
14 same transceivers? That's hypothetically possible, but the
15 claim requires more than hypothetical possibility. That's
16 what we're talking about with our limitation of 'not mere
17 capability'.

18 All we're saying is that we have to look at the products
19 as shipped, not a product that could be capable of, be
20 redesigned, or have different source code put on it. And the
21 concern from their construction is 'able to be configured'.
22 'Able to configured' to us sounds much, much broader. If I
23 have a computer and it's got a memory and a processor, it's
24 able to be configured in a plethora of ways. You could buy
25 software from another party and put on it, you could send it

1 back to the manufacturer to have something changed about it,
2 it's all able to configured that way, but --

3 THE COURT: Well, I mean, quite honestly, isn't
4 'configurable' just 'able to be configured' with the word
5 being cut in half and the front half being put on the back? I
6 mean, just -- it's the same part of the language.

7 MR. STEVENS: It very well could be the same
8 construct, but what we believe is that that's an attempt to
9 say, No, you could ship it back and put different software on
10 it and do something different.

11 THE COURT: Let me ask you this.

12 MR. STEVENS: Yes, sir.

13 THE COURT: If the Court were to construe
14 'configurable' to 'be able to be configured', as the Plaintiff
15 requests, but make it clear that that doesn't mean it's the
16 same as being capable of anything through redesign or
17 reconfiguration or alteration, which comports with what I
18 heard Mr. Davis argue, I think at that point we're back full
19 circle to where you started in that we may not have that much
20 of a disagreement here.

21 MR. STEVENS: I think that's correct, Your Honor.
22 If the construction is clear that it does not include
23 rebuilding, rewriting the code, redesigning, command line
24 interface modifications, or password protected features, then
25 I don't believe there's a dispute.

1 THE COURT: Well, as I hear both of you, it sounds
2 like you're both saying the same thing, but you don't trust
3 each other to stay to that position and you're worried about
4 what they're going to do after this is over.

5 MR. STEVENS: I think in fairness, Your Honor, I'm
6 sure that's not the first time that's been your view, and
7 that's probably very true. I mean, we did have this
8 discussion, both of us, in good faith during the meet and
9 confer process and weren't able to resolve it, so it's not
10 entirely clear to me that there's not an issue bubbling here
11 that is beyond my purview, but as Your Honor just phrased it,
12 we would have no problem with that construction.

13 THE COURT: All right. Mr. Davis, do you have
14 anything else to add? It's clear to me this may be one of the
15 more pressing terms here. In light of this colloquy with
16 Mr. Stevens, do you want to revise your earlier statement or
17 confirm it or what would you like to add, if anything?

18 MR. DAVIS: I believe that I agree with Your Honor's
19 articulation of it. I do want to clarify for the record and
20 make it abundantly clear that, you know, the list of things
21 that Mr. Stevens read off is not entirely accurate with the
22 way that we -- the way that I articulated it.

23 And with respect to the list of things, you know, he said
24 not rewriting code, not redesigning chips, but then he also
25 included password protected and command line interface. When

1 I mentioned password protected and command line interface, I
2 was talking about in the context of the Delaware court having
3 granted summary judgment, so as a factual matter the court
4 held in those cases that I don't believe that something that
5 is inoperable is -- satisfies the definition of 'capability'.

6 So I just wanted to make sure that we're not on record
7 having agreed to password protected or command line interface.
8 There are Federal Circuit cases that address those issues as
9 to the ultimate infringement question, which I think is
10 ultimately where this goes, and a lot -- Your Honor is
11 absolutely correct. The concern here is that I think both
12 sides are afraid that the other side is going to, you know, do
13 something that addresses the ultimate infringement question.

14 So I just would want to clarify that to the extent the
15 Court is going to articulate, not as part of the construction
16 but as part of the analysis and the opinion or something that
17 it expects the parties to adhere to, that, you know, we're
18 talking about, you know, redesigning, rebuilding something
19 that is not functionality that's, you know, inherent in the
20 machine as it's designed.

21 THE COURT: I understand. And I think, in very
22 large part, both sides are in the same posture. It's clear to
23 me you're just worried about what wiggle room the Court might
24 leave that the other can take advantage of the down the road.
25 And quite honestly, counsel, as Mr. Stevens pointed out, this

1 is not the first time I've seen that scenario.

2 MR. DAVIS: I understand.

3 THE COURT: But it's part of my job to make sure
4 that there's not any inappropriate wiggling in any room that's
5 left, and I can certainly do that.

6 MR. DAVIS: Thank you, Your Honor. Appreciate it.

7 THE COURT: Okay. I think I've heard all I need to
8 on this term, unless there's somebody else that needs to weigh
9 in.

10 If not, let's turn to the next group of disputed
11 terms--'each bit in the diagnostic message is mapped to at
12 least one DMT symbol', and then we've got 'DMT symbols that
13 are mapped to one bit of the diagnostic message'. The third
14 iteration of this from claim 40 appears to have been dropped,
15 it looks like to me, and we're just talking about these first
16 two iterations.

17 Why don't you go ahead and give me Plaintiff's posture on
18 this, please.

19 MR. DAVIS: Yes, Your Honor.

20 The issue here is indefiniteness. The Defendants have
21 alleged that this term is indefinite, and we obviously
22 disagree. We have proposed a construction that is consistent
23 with the Delaware construction for a slightly different term.
24 The term at issue was not 'DMT symbol'; it was 'DMT signal'.
25 But we have essentially adapted it to these claims, so --

1 THE COURT: Let me ask you this, counsel.

2 MR. DAVIS: Yes, Your Honor.

3 THE COURT: If--and this is a hypothetical--but if
4 the Court were not persuaded by the Defendants' indefiniteness
5 argument, would a construction of plain and ordinary meaning
6 be adequate here? It doesn't look like to me the Defendants
7 have come forward with any alternative construction beyond
8 positing their arguments on indefiniteness. That it need to
9 be construed as you've attempted to...

10 MR. DAVIS: I don't believe so, Your Honor. My
11 understanding is that I believe plain and ordinary meaning
12 would be sufficient. So I -- you know, I believe that's --

13 THE COURT: Okay.

14 MR. DAVIS: We would agree with that.

15 THE COURT: Well, tell me why their indefiniteness
16 argument fails here.

17 MR. DAVIS: Yes, Your Honor.

18 They've articulated an indefiniteness argument that
19 doesn't rise to the level of indefiniteness where, you know,
20 the term is incapable of being understood by a person of skill
21 in the art. Essentially what -- I think it would be helpful
22 to just give a brief explanation.

23 What the '686 Patent is dealing with is a situation where
24 there's interference or noise in the transmission line, and it
25 wants to figure out what's going on, so it goes into a

1 diagnostic mode so that information can be exchanged to try to
2 fix the problem. And because there's noise, we need a more
3 robust way of communicating the message, and the diagnostic
4 mode is basically slowing the bandwidth down to where we're
5 using the entire DMT symbol in the transmission to communicate
6 a single bit of information.

7 And the specification of the '686 Patent talks in a
8 number of places about this issue about needing a diagnostic
9 mode or establishing a diagnostic link mode to be able to
10 communicate the message in a simple and robust manner. And so
11 that's what we're talking about and that's what this claim
12 term, 'each bit being mapped to one or more DMT symbols' is
13 talking about. It's talking about we're going to communicate
14 less data in a slower fashion, but it's more robust so that
15 it's more likely to get through.

16 And the Defendants have essentially said, We don't
17 understand what this means, we don't understand the concept of
18 mapping. And they agree that they do understand the concept
19 to the extent that you're mapping one bit to one symbol, so
20 they -- I think or I gather from their briefs that at least
21 that part of the claim is understandable by them. But what
22 they don't understand and what they think is indefinite is
23 where you're mapping one bit to more than one symbol.

24 Now, the claim itself says 'one or more'. They
25 understand at least the 'one' part of it. And I believe their

1 indefiniteness argument is focused on the 'or more' part. But
2 as for disclosure in the specification for this concept of
3 'each bit being mapped to at least one DMT symbol', we have
4 express disclosure in column 1 -- sorry, column 3, lines 44 to
5 53. "In the diagnostic link mode, the RT modem sends
6 diagnostic and test information in the form of a collection of
7 information bits to the CO modem that are, for example,
8 modulated using one bit per DMT symbol modulation as is used
9 in the C-RATES1 message in the ITU and ANSI ADSL standards."

10 So the standards talk about C-RATES1, they talk about
11 mapping one bit, they address this concept of 'only one bit of
12 information is transmitted in each symbol'. So it seems that
13 quite a few people of skill in the art understand this
14 concept; they understand what it means to map a bit to a
15 symbol.

16 The -- in the paragraph immediately following, there is
17 also disclosure for the one bit per DMT symbol modulation
18 message encoding scheme where a bit with a value of 0 is
19 mapped to the REVERB1 signal and a bit with a value of 1 is
20 mapped to a SEGUE1 symbol. And it talks about, Since both
21 signals are wideband and known in advance, the receiver can
22 easily detect them using a simple matched filter. So it's
23 saying, look, we're going to use a REVERB signal and a SEGUE
24 symbol to map 1s and 0s, wideband, easy to understand.

25 And I think this addresses their concern or their

1 indefiniteness challenge that we don't understand how you map
2 one bit to, you know, the same bit in a message to multiple
3 symbols. We think it's very simple and straight forward.
4 You're just repeating the same symbol. You're repeating the
5 same bit. And that's exactly what's disclosed in the standard
6 with respect to REVERB1. REVERB1 is a type of signal. Each
7 symbol of REVERB1 is identical, and the duration of C-REVERB1
8 is 512 repeating symbols. That sounds like mapping a single
9 bit to more than one symbol to me. And it's disclosed in the
10 standard that's incorporated into the spec.

11 This is just an example of a signal, what a signal would
12 look like, the wave form of a DMT symbol that's been
13 modulated, and it's just repeating. So how do you map one bit
14 to more than one symbol? It's repeated, exactly as discussed
15 in the REVERB signal portion of the standard.

16 So Defendants' argument is, Well, this is a -- 'mapped'
17 is a jargon term. We don't understand it. It could mean that
18 the same bit is represented by one symbol, two symbols, or
19 every symbol that results from a given DMT signal. That's
20 fine. That's not indefiniteness. That's -- it could. That's
21 disclosed in the spec. It's disclosed with respect to the
22 REVERB1 signal for 512 symbols.

23 And essentially they say a person of skill in the art
24 would understand that you have to define a mapping function
25 with specificity in order to understand -- for both sides of

1 the transmission to be understood. That's fine. Agreed.
2 That doesn't make the term indefinite simply because both
3 sides have to have been -- have to have a mapping function
4 ahead of time so that they understand what's being
5 communicated. That doesn't render the term indefinite.

6 And then they say, Well, the REVERB and SEGUE signals are
7 intended -- are instead only relevant to the state of the
8 communication protocol. That may be true in the standard, but
9 the standard is incorporated by reference and it's
10 incorporated into the spec as a way to communicate a
11 diagnostic message. So the patentee, the inventor is saying,
12 Hey, we could use something like this REVERB signal defined in
13 the standard to communicate the diagnostic message. So the
14 fact that the standard may use REVERB and SEGUE for a
15 different purpose doesn't mean that the inventor can't
16 incorporate that into his invention.

17 And finally, this is, again, from the declaration of
18 Doctor McNair, and in here he's admitting that while 'one' is
19 clear, he's admitting that at least that part of the claim is
20 clear, mapping one bit of a message to one symbol, he says,
21 "The term 'at least one' allows for the scenario that a given
22 bit is mapped to more than one DMT signal. As described
23 below, the different possible interpretations tied to each
24 version of the claim further adds to the indefiniteness of the
25 term."

1 As I just explained with respect to REVERB, the REVERB
2 signal, that's disclosed in the specification, the person of
3 skill in the art would understand what is meant by that.

4 And, finally, their indefiniteness argument boils down to
5 a number of questions which I don't believe satisfies the
6 standard for indefiniteness. Just because there are questions
7 that can be articulated doesn't mean that the term is
8 indefinite, but I believe the answers to all -- there are
9 answers to all of these questions that are apparent from the
10 intrinsic record. The first question is whether there is some
11 error coding used to map a bit into several redundant symbols.
12 Maybe so. That doesn't mean the term is indefinite. Error
13 coding is something that's understood in the art.

14 Essentially, in its most basic form, error coding is repeating
15 the same bit over and over again. You're creating redundancy
16 in the message to ensure the reliability of the transmission.

17 The second question whether the same bit is sent multiple
18 times, once in each symbol, yes, that is the way to do it.
19 That is a way to do it.

20 Whether the claim language contemplates something else
21 entirely. The claim is broader than that, certainly. It
22 could encompass any error coding scheme where you're mapping
23 each bit to at least one symbol.

24 With all that said, Your Honor, I don't have anything
25 further. We just don't believe this term is indefinite.

1 THE COURT: All right. Thank you, counsel.

2 Let me hear responsive argument.

3 MS. WROBLEWSKI: Karlee Wroblewski on behalf of
4 Defendants.

5 THE COURT: Go ahead, counsel.

6 Let me ask you, before you proceed with your actual
7 argument, if your position is that the potential need for a
8 mapping function makes the claim terms unclear, and I gather
9 at least one reading of your briefing would support that, why
10 isn't that really an enablement or a lack of written
11 description issue more than an indefiniteness problem?

12 MS. WROBLEWSKI: Yes, Your Honor.

13 So I think ultimately, as counsel has pointed out, there
14 is a bit of discussion within the specification as to what is
15 required by the claim language, but there is additional
16 discussion that was not raised by counsel that would indicate
17 that multiple possibilities are -- could satisfy this claim
18 language, and that's where the indefiniteness issue comes
19 from.

20 So if I may sort of point out the claim language and
21 indicate where in the specification that additional disclosure
22 is, that is the crux of why this is, in fact, indefinite.

23 THE COURT: At some point I want you to answer my
24 question, though, as to why this is truly an indefiniteness
25 issue and not really a lack of fully enabling it or possessing

1 the full scope or written description problem.

2 MS. WROBLEWSKI: Yes, Your Honor.

3 So, ultimately, I believe that the issue and why this is
4 indefinite is because looking at the claim language, it does
5 not allow one of skill in the art to understand the bounds of
6 the claim, and that's sort of the crux of the indefiniteness
7 issue. We're not of the position that there is not
8 description within the specification where one could pull
9 multiple meanings as to what this language might mean, but,
10 rather, that it's not clear which of those possible
11 interpretations might be correct, and so that's why we're
12 setting forth an indefiniteness position as opposed to a
13 written description or lack of enablement.

14 THE COURT: I mean, it's clear that the old standard
15 that used to be applied here of insolubly ambiguous is no
16 longer the test.

17 MS. WROBLEWSKI: Right.

18 THE COURT: But that doesn't necessarily mean that
19 we revert to the opposite end of the spectrum where any
20 uncertainty automatically equates to indefiniteness.

21 MS. WROBLEWSKI: Yes, Your Honor.

22 THE COURT: You do have a clear and convincing
23 burden or standard here, so let me hear the rest of your
24 argument.

25 MS. WROBLEWSKI: Yes, Your Honor.

1 So, specifically, as you referred to the standard, we
2 believe that a person of ordinary skill in the art would not
3 have reasonable certainty as to what is intended by this
4 language. And turning to the specification, this is the same
5 specification that TQ Delta's counsel just had up. And what
6 TQ Delta's counsel pointed out was this disclosure as to 'one
7 bit per DMT symbol modulation', and again here 'one bit per
8 DMT symbol modification'.

9 And if I return to Plaintiff's proposed construction,
10 they are reading this requirement into the language so that it
11 represents only a single bit of the diagnostic message. But
12 what this doesn't consider is this additional requirement in
13 the middle of the specification, column 3, lines 50 and at
14 line 53, where it indicates that "other exemplary modulation
15 techniques include, for example, higher order QAM modulation
16 which involves more than one bit per carrier."

17 So this requirement that there can only be a single bit
18 should not, in fact, be part of the claim, and this
19 conflicting disclosure within the specification is the basis
20 for why we believe there's not reasonable certainty as to what
21 this claim limitation actually means.

22 THE COURT: All right. What else?

23 MS. WROBLEWSKI: Returning to our position of
24 indefiniteness, I just want to point out that Plaintiff has
25 proposed the same definition with respect to these two very

1 different limitations, so the first limitation being, "Each
2 bit in the diagnostic message is mapped to at least one DMT
3 symbol and DMT symbols that are mapped to one bit of the
4 diagnostic message."

5 And it's clear that based on these differing language --
6 based on this differing language, it can't be the case that
7 one construction solves all of the ambiguity that exists
8 within the claim, and this differing language, in fact, raises
9 different questions as to what is required by each of these
10 limitations.

11 THE COURT: Well, if that's the case, and I don't
12 necessarily disagree with you that it is, why did Defendants
13 opt to stop with your indefiniteness argument and not go
14 forward and say, And, alternatively, if the Court finds that
15 this is not indefinite, what the Plaintiff has proposed here
16 doesn't fit there and what he's proposed there doesn't fit
17 here. You didn't give me any of that. You didn't go beyond
18 just simply saying it's indefiniteness, end of story, and now
19 you're arguing somewhat what you failed to brief, and I'm
20 curious as to why.

21 MS. WROBLEWSKI: Respectfully, I do believe that we
22 -- I do believe that our brief included at least the basis for
23 these arguments. But, you know, to your point, if the Court
24 is not inclined to go with an indefiniteness position, simply
25 adopting, you know, the plain and ordinary meaning of these

1 terms I think would be acceptable. Ultimately, these terms
2 cannot be satisfied by the same construction that has been set
3 forth by TQ Delta, and --

4 THE COURT: Tell me in -- to carry this discussion a
5 little further, then, tell me what your view is of what the
6 plain and ordinary meaning should be of this claim language.

7 MS. WROBLEWSKI: Truly, Your Honor, because of the
8 lack of specificity of these terms, I think that what we would
9 be left with is just the language of the claim as is and that
10 no additional construction would be necessary and would be a
11 factual issue we would have to deal with down the road.

12 THE COURT: Well, let me just be real candid with
13 you, counsel. I don't want to leave the door open to a
14 late-breaking, end-of-the-process, most inconvenient possible
15 raising of an *02 Micro* issue. So if you've got what the plain
16 and ordinary meaning ought to be, tell me it is now, or tell
17 me the claim language suffices without any further
18 construction. Don't be silent here and then down the road as
19 we're picking the jury say, Oh, for the first time it's just
20 dawned on me you have to construe what the plain and ordinary
21 meaning is. So that's what I'm trying to foreclose here, to
22 be candid with you.

23 MS. WROBLEWSKI: Understood, Your Honor.

24 And to the extent the Court is not inclined to agree with
25 our indefiniteness, we would submit that the plain language of

1 the claim here would be the plain and ordinary meaning.

2 THE COURT: All right. Anything further?

3 MS. WROBLEWSKI: No, Your Honor.

4 THE COURT: Okay. Thank you, counsel.

5 All right. Let's move on to this fourth category, 'array
6 representing frequency domain received idle channel noise
7 information'.

8 Let me hear from the Plaintiff on this.

9 MR. DAVIS: Thank you, Your Honor. Bo Davis again
10 for the Plaintiff.

11 THE COURT: This is one of those cases where we have
12 a prior construction from Delaware, is it not?

13 MR. DAVIS: It is, Your Honor. We have a Delaware
14 construction. We have proposed the Delaware construction, and
15 essentially the Defendants have proposed the Delaware
16 construction up to a point. The language that I --

17 THE COURT: On the 'received channel' seems to be
18 where it deviates.

19 MR. DAVIS: Yes, Your Honor. They have omitted that
20 language from their construction.

21 And the Delaware court addressed this thoroughly and
22 recognized that we're not talking about a complete absence of
23 any transmission signal. Transmission signals, as the
24 specification says, are a source of the noise that we're
25 trying to address. And so when we're talking about -- I mean,

1 what we're talking about here is we have a particular channel.
2 We want to measure the amount of noise on that channel, so
3 we're going to stop transmission on that channel, measure the
4 noise, get the information we have about it so that we can
5 then adjust the parameters we need to adjust to make the
6 transmission on that channel more reliable.

7 So we do think it's important for that reason to have the
8 language 'on the received channel' present in the claim to
9 distinguish the Defendants' construction, which is in the
10 absence of a transmission signal.

11 So I don't know that there's really a whole lot more to
12 say about it than that, and for brevity, I'm happy to rest on
13 that argument, unless Your Honor has a question, but I believe
14 that's the issue.

15 THE COURT: All right. I don't have any questions
16 of Plaintiff at this juncture.

17 Let me hear from Defendants.

18 MS. WROBLEWSKI: Karlee Wroblewski again.

19 So, respectfully, I believe there are two disputes with
20 respect to this term, the first being the requirement of
21 'array', and then, as counsel pointed out, the difference
22 between Plaintiff's construction and Defendants' construction
23 as to whether or not 'on the received channel' is required.

24 With respect to 'array', we think that this is a
25 well-understood term within the art, and that adding the

1 additional construction of 'ordered set of values' would just
2 serve to add additional confusion to the jury and require
3 additional description as to what is intended by that term.
4 In addition, we don't feel that that fully captures what
5 'array' can require.

6 THE COURT: So you think there is some divergence
7 between the plain and ordinary meaning, the well-established
8 meaning of 'array' and 'ordered set of values'?

9 MS. WROBLEWSKI: Yes, Your Honor.

10 So -- and then turning to the dispute that TQ Delta
11 raised is with respect to 'on the received channel'. I'd
12 first like to point out that 'on the received channel' is not
13 anywhere within the specification. It doesn't point out that
14 in order to measure idle channel noise information it must be
15 that channel that is, in fact, silent.

16 What we do see within the specification is two things:
17 One, the language as proposed by Plaintiff and Defendants'
18 construction requires 'the absence of a transmission signal'.
19 And from the specification we can see that a transmission
20 signal is one signal that goes across the entire subscriber
21 loop. So we see that in the '686 Patent at column 1, lines 34
22 through 43, and again within column 2, line 1 through 11.

23 THE COURT: Isn't there some difference between an
24 absolute absence of a transmission signal and the channel
25 simply being idle? I mean, those are not the same thing, are

1 they?

2 MS. WROBLEWSKI: They are not. And what we are
3 measuring with respect to idle channel noise information is
4 the noise information that would exist within a given channel,
5 but that does not require that that channel be the only thing
6 that is idle. So the specification further tells us that --

7 THE COURT: But not requiring that that's not the
8 only thing that's idle is not the same thing as saying there's
9 no transmission signal at all, is it?

10 MS. WROBLEWSKI: Well, the specification points to
11 examples of noise that can exist on a line, and so we see here
12 that what the specification considers is not noise that is
13 present on adjacent channels, but as we see on line 45, the
14 noise that is present on an adjacent phone line. And so the
15 differentiation here is that we, based on this disclosure
16 within the specification, understand that the claims are not
17 so specific as to indicate that there must only be an absence
18 of noise on the channel, but rather, that the entire line must
19 be silent.

20 If we look at -- this is from TQ Delta's technology
21 tutorial. We see the noise that can be introduced from
22 adjacent lines here on this telephone pole, and then we have
23 four different lines going to four different houses
24 communicating different types of data. And these different
25 lines are, in fact, impacting the line at issue that -- for

1 which we want to evaluate what noise is, in fact, present on a
2 given channel.

3 So it is our position, based on this image, that it's not
4 necessary that to measure the idle channel noise information
5 of a channel that it must only be the case that other channels
6 are idle, but rather, that the entire line must be idle.

7 THE COURT: Let me return to your first point.

8 What differences are there, in your view, between the
9 well-established understanding of an array and an ordered set
10 of values? I'm not at all sure that I think there's a lot of
11 difference or space here, but you seem to think it's worth
12 making a point in argument over. So tell me what is it that
13 'ordered set of values' doesn't convey that is part and parcel
14 of the well-known meaning of 'array'.

15 MS. WROBLEWSKI: So there's a few examples. One is
16 that an array doesn't necessarily require an ordered set;
17 rather, an array could include, for example, the array of
18 colors in a rainbow. So it's not necessary that we have a
19 table that allows us to pick and choose what satisfies that
20 term and sort of an ordered pair of values.

21 THE COURT: Every rainbow I've ever seen looks the
22 same way. Are you telling me there's a difference between the
23 way they're ordered?

24 MS. WROBLEWSKI: Not necessarily. So it could be
25 the case that the array of rainbows tells you them in a

1 particular order, but -- sorry, the array of the colors in a
2 rainbow is in a particular order; but it could also be the
3 case that those colors are presented in a different order, but
4 that wouldn't necessarily mean that they are not still
5 representative of the colors of that rainbow.

6 THE COURT: All right. Anything that you want to
7 cover that you haven't already, counsel?

8 MS. WROBLEWSKI: No, I think that covers it, Your
9 Honor.

10 THE COURT: Okay. Thank you.

11 All right. Let's move on to 'plurality of bonded
12 transceivers'.

13 Let me hear from the Plaintiff, please.

14 MR. HURT: Thank you, Your Honor. Christian Hurt
15 for the Plaintiff.

16 This is a term that was also construed in the Delaware
17 case, and the main dispute between the parties --

18 THE COURT: Are we back to the 'configurable'
19 argument again?

20 MR. HURT: That's right, Your Honor. And it's a
21 little bit different because 'configurable' is not in the
22 claim language. The claim language is 'bonded transceiver',
23 and there is a dispute over what it means to be bonded. And
24 the Delaware court resolved that by including language that
25 the transceivers are on the same side of a physical link.

1 That's what it means to be bonded. But what the Defendants
2 want on top of that is that the transceivers have to actually
3 be running in bonded mode. They need to be running in that
4 particular mode of operation. And that's what the Delaware
5 court rejected, and that's the main issue that's being
6 relitigated in this case.

7 And so the main issue in the actual construction is the
8 Defendants have the word 'coordinated to', which the Delaware
9 court referenced, and it's in the briefing as 'active bonding
10 that's actually doing the bonding', and our construction,
11 which is the Delaware construction, is 'configurable to'.

12 So that's the primary issue. That's the issue that's
13 briefed between the parties.

14 And so -- and the Delaware court resolved this, and, as I
15 mentioned, for giving meaning to the word 'bonded' found that
16 the transceivers are on the same side of two or more physical
17 links. And that's what it means for these transceivers to be
18 bonded. That's the actual structure.

19 But what the Defendants are including here, which they
20 included in Delaware, is not only do they need to be -- the
21 transceivers need to be set up that way; they actually need to
22 be running in bonded mode. And the district court in Delaware
23 rejected that. And that's where the 'configurable to
24 transmit' comes in instead of 'coordinated to transmit' comes
25 in, and that was in the Delaware case.

1 And this is one of the --

2 THE COURT: Tell me how 'coordinated' equates with
3 actual operation. I mean, doesn't 'coordinated to' re-raise
4 the issue of 'configured to' as opposed to actual operation?

5 MR. HURT: Well, Your Honor, I would think if in
6 the -- I would think Your Honor is correct in the absence of
7 the record that's in Delaware and how this dispute played out.
8 The Defendants proposed 'coordinated to' and in their briefing
9 took the position that that meant actual active bonding,
10 actual operation. And so that's the issue.

11 I think if we were just talking about 'coordinated
12 to' without that context, it would be closer to what Your
13 Honor asked, but the reason we're talking about it as 'active
14 operation' and 'active bonding' is because that's how the
15 Defendants have framed the issue in Delaware. And that's the
16 language that provides the hook for that.

17 THE COURT: All right.

18 MR. HURT: And so the district court rejected that
19 argument. This case in Delaware actually went to a verdict,
20 so a lot of these Delaware cases are at different stages. The
21 jury actually rendered a verdict on this -- on these claims
22 under that construction.

23 And so the Defendants, to show that it requires active
24 operation, point to two with parts of the specification in
25 which the Delaware court looked at, but if you look at those

1 parts, it's talking about an exemplary system, it's not
2 something that's definitional, and it says "to, for example,
3 generate a high data rate." So it doesn't say it's actually
4 doing it right now; it's -- in this example system it's set up
5 to do it, which is what the Delaware court's configurable
6 construction already captures.

7 The second part of the specification similarly doesn't
8 help the Defendants' re-definition because it mentions the
9 exemplary system being bonded together to form a single
10 stream. But again, the district court's -- Delaware court's
11 construction captures this because they're on the same side of
12 the physical link, and this is actually the part of the
13 specification that the Delaware court relied on to have two
14 transceivers on the same side of the physical link, which is
15 in TQ Delta's construction. So this is already captured in
16 what it means to be bonded.

17 But what the Defendants are doing now, which is what they
18 did in Delaware, is have an additional requirement that those
19 transceivers are up and running in bonded mode, that they are
20 actually in this operation, and the district court rejected
21 that in Delaware. It ultimately went to a jury verdict.
22 There is no reason to depart from that construction. Nothing
23 in the intrinsic record would support that view.

24 THE COURT: All right.

25 MR. HURT: Unless Your Honor has any questions.

1 THE COURT: No. Thank you, Mr. Hurt.

2 MR. HURT: Thank you, Your Honor.

3 THE COURT: Let me hear from Defendants, please.

4 MR. ONG: Good morning, Your Honor. Andrew Ong on
5 behalf of Defendants.

6 These two terms, the plurality of bonded transceivers and
7 the next term are only relevant to CommScope because these are
8 the only -- they are only asserted against CommScope.

9 So I think the key thing here to note is that what
10 Plaintiff admitted during argument is that the 'configurable
11 to' language is nowhere in the claim language. It's not
12 anywhere in the patent specification for the '881 Patent.
13 It's not used in any of the claims as issued.

14 And so if you look at the plain language of the claim,
15 you are requiring a plurality of bonded transceivers. What
16 Plaintiff is asking the Court to do is essentially rewrite it
17 to be -- to say what they wish it said, which is something
18 along the lines of a plurality of transceivers that are
19 capable of being bonded, or if the Court is inclined to use
20 the 'configurable to' language, that's something that they're
21 proposing that's just not in the language of the claims.

22 And --

23 THE COURT: So for that reason, the Delaware court
24 got it wrong.

25 MR. ONG: We do think that the Delaware court got it

1 wrong, Your Honor, and we do think that the Delaware court's
2 construction is contrary to the intrinsic evidence and
3 Defendant -- excuse me -- plaintiff pointed out the portions
4 that we cited to in our brief, and they're on the screen. So
5 the exemplary systems and methods of this invention combine
6 multiple physical PHY's. And this is in the summary of the
7 invention at lines -- column 4, line 29, it says, "The
8 exemplary system illustrated in figure 2 PHY's 160 and 170 are
9 bonded together." So the applicants recognized in drafting
10 the specification, in drafting the claim language, that
11 bonding -- that having actual bonding is what's required for
12 the claimed invention.

13 The last point that TQ Delta made in its brief is that
14 the construction that we're proposing here is contrary to
15 Federal Circuit law about what a device actually is as opposed
16 to what the device actually does. And we disagree with that,
17 Your Honor, for a couple of reasons. One is, again, the plain
18 language says it's bonded, so that's telling us what the
19 structure is. And this is no different than a situation where
20 you have a system and you have a couple of computers and it
21 says the computers are connected to each other. Right? This
22 is what's -- that's what's required to satisfy the claim
23 language.

24 And to the extent that Defendants -- excuse me. To the
25 extent that Plaintiff believes that this is imposing a --

1 improperly imposing a use requirement, we cited the *Typhoon*
2 *Touch versus Dell* case. And basically if the specification
3 supports it and you have a structure that is defined by
4 functional language, it is not -- it is proper to include a
5 use or operation requirement in the claim construction. And
6 we submit that that is the case here because the plain
7 language requires that the transceivers are actually bonded to
8 satisfy the limitation.

9 THE COURT: Do you agree, counsel, that whether
10 we're going to argue about 'configurable' or 'corresponding'
11 or 'bonded' or any of this claim language, that at the end of
12 the day that really comes back to whether or not actual
13 transmission and reception is required?

14 MR. ONG: That's --

15 THE COURT: That's really the nut of the problem
16 here, isn't it?

17 MR. ONG: That is correct, Your Honor.

18 THE COURT: Okay.

19 MR. ONG: And I have nothing further on this.

20 THE COURT: Is there anything that you've given me
21 that was not presented to the court in Delaware, or is this
22 basically the same argument that was presented there?

23 MR. ONG: I believe that's correct.

24 THE COURT: Okay. Thank you.

25 MR. ONG: Thank you, Your Honor.

1 THE COURT: All right. Let's move on to item 6,
2 which is 'reduce a difference in latency between the bonded
3 transceivers'.

4 And let me hear from the Plaintiff.

5 MR. HURT: Christian Hurt for the Plaintiff, Your
6 Honor.

7 This term is in the same claim as the one that we just
8 discussed, and this issue was also raised in Delaware by the
9 -- and resolved there. And there are two issues that the
10 parties are briefing. The first is indefiniteness. The
11 district court in Delaware addressed that, found the claims
12 were not proven indefinite.

13 And the second is this alternate construction which
14 replaces the word 'reduced' --

15 THE COURT: With 'minimize'.

16 MR. HURT: -- with 'minimize'.

17 THE COURT: Right.

18 MR. HURT: And the Delaware court addressed that and
19 concluded these are two different things. Pretty clear
20 'reduced' and 'minimize' aren't the same, no lexicography or
21 disavowal.

22 And we really have the same record here, and I'll go
23 through it briefly, Your Honor, but this term is about using
24 transmission parameters to reduce a difference in latency
25 between more than one transceiver. So if Your Honor recalls

1 from the tutorials, the bonded system is where you're trying
2 to use two or more phone lines to blast a bunch of data to
3 someone's house, and when it gets back to the house it all has
4 to be recombined. And so if there's differences in some of
5 the timing of when that data shows up, it may not come in
6 order or there may be issues trying to restructure it. And
7 this term is about, Well, how about I fiddle with some of
8 these parameters to make it so when the data comes in I can
9 process in the way that's a little more synchronized and
10 optimizes the system. And that's what this term just says on
11 its face is you utilize a transmission parameter value to
12 reduce that difference in latency.

13 And the district court judge on the definiteness issue in
14 Delaware mentioned -- has held this is clear as to what this
15 means, there is nothing ambiguous about this. And Defendants
16 here don't point to anything in the text itself that's
17 ambiguous. What their argument is, Well, the patent doesn't
18 tell you how to reduce the latency, and that's not correct.
19 And as Your Honor mentioned earlier with the family 1 patents,
20 that's really a written description/enablement issue, not a
21 claim scope issue.

22 And then the other argument is, Well, there are many
23 times of latencies. One is configuration latency, but also
24 another one is wire latency, which is the two wires could be
25 of such different lengths that when the actual information

1 travels on them, one's a lot slower than the other because
2 it's a lot longer. But the signals on these wires travel at
3 somewhere around 30 to 50 percent of the speed of light, and
4 so there's never really an instance where Defendants have
5 pointed to where that wire latency really has such a big
6 impact on the system compared to configuration latency which,
7 in the patent, is in an order of milliseconds. So we're
8 talking about the predominant latency driver is the
9 configuration latency. The wire latency you have to have a
10 difference in wires that are hundreds or thousands of miles
11 for that to even approach the configuration latency.

12 THE COURT: When you say 'wire latency', are you
13 talking about what Defendants argued in their briefing as
14 overall system latency, or is that something different.

15 MR. HURT: It's part of it. The overall system
16 latency is -- has a couple of components. One is wire latency
17 and one is configuration latency, and the total system latency
18 is basically those start to add up.

19 But what the claim's talking about is you change the
20 configuration latency parameters to reduce this difference in
21 latency. And the Defendants say, Well, it may not reduce the
22 difference in latency because the wire latency may be way out
23 of whack. But there's really no evidence to support that.

24 And even if in that situation where you utilize the
25 transmission parameters and it didn't reduce the latency,

1 that's just a non-infringement issue; that's not a claim scope
2 issue. The claim scope issue is you use those parameters and
3 it reduces the latency.

4 And that's what the district court judge in Delaware
5 held. The claims are clear to what their face -- on their
6 face as to what's claimed, there isn't really a definiteness
7 issue, and there's no reason to change -- reduce the
8 difference -- to minimize the difference.

9 And in terms of the argument, well, the patents -- and
10 again, Your Honor, this is a claim that went to verdict in
11 Delaware, so a definiteness -- the judge found there was no
12 indefiniteness on summary judgment, the patent proceeded to
13 trial, and there's currently a verdict.

14 So the specification tells you that the latency of the
15 claims they're talking about is configuration latency, and
16 that's what those transmission parameters drive. And I don't
17 think there's really a dispute about that. The Defendants'
18 alternate construction is to minimize the difference in
19 configuration latency.

20 But to this definiteness argument that the specification
21 doesn't tell you the how is just incorrect. So the
22 specification tells you how to measure latency, how to
23 calculate it with some equations, how to balance the two
24 receivers to have the same latencies, and that even tells you,
25 you know, if you can't get them -- if you can't exactly have

1 them line up, you can still use some buffering to get -- to
2 make sure that you're able to piece the stream together.

3 So this is actually from figure 9 where you can see the
4 three streams coming in on the right side of the screen. The
5 middle one is a little bit faster so you may want to hold it
6 and wait for the top one to come in before you piece the
7 stream back together.

8 And the Defendants' argument is, Well, this is talking
9 about an embodiment that's not claimed--I disagree with
10 that--but there is also a second embodiment in the patent that
11 shows the same thing.

12 And so this goes to the Defendants' argument that
13 'reduce' means 'minimize'. Their argument is you've got to
14 set the two latencies equal to each other, and the patent
15 discloses, sure, that's an example equation, but it says,
16 Look, if they're not exactly equal, which in the real world is
17 basically usually the case, you can use some type of buffering
18 to compensate for the difference in latency. And that's in
19 figure 9 and figure 15 of the patents.

20 And Your Honor, all of this was before the Delaware judge
21 who ruled in the way that TQ Delta is asking Your Honor to
22 rule in this case.

23 THE COURT: All right.

24 MR. HURT: So unless Your Honor has any questions.

25 THE COURT: I think I understand your position.

1 Let me hear from the Defendants, please.

2 MR. ONG: Andrew Ong for CommScope.

3 And just to get it out front, we -- this stuff was before
4 judge Andrews, but we do believe he got it wrong based on the
5 intrinsic record.

6 We do believe that the 'reduce the difference of latency
7 between the bonded transceivers' term is indefinite. There is
8 no disclosure in the patent specification that would allow a
9 person of ordinary skill to understand what it means to reduce
10 the configuration latency -- or reduce a difference in latency
11 between two transceivers.

12 The key issue here is that in the specification there is
13 no discussion that allows a person of ordinary skill to
14 understand sort of what is the latency of the system before
15 these transmission parameter values are used as compared to
16 when you have the claim language where the -- at least one
17 transmission parameter value is then being used to reduce a
18 difference in latency between the transceivers.

19 So essentially if you don't know what the latency is
20 before the values are used, there's no way to know whether the
21 utilization of those transmission parameter values actually
22 reduces a latency -- a difference in latency between the
23 bonded transceivers.

24 And actually the -- with respect to the configuration
25 latency, the portion of the specification that the Plaintiff

1 was highlighting actually adds to or demonstrates the problem
2 here. The only discussion of the configuration latency
3 reducing is to set the transmission parameter values so that
4 the configuration latency across two bonded lines are -- is
5 the same, and that way your difference in latency is always
6 going to be zero.

7 In that context--right?--you know that the difference in
8 latency has been set to zero, but there's no discussion in the
9 patent specification about what the difference in latency was
10 without using those transmission parameter values. If the
11 transmission -- if the difference in latency at that point is
12 zero, then going from zero to zero, there is no reduction in
13 the latency after using the transmission parameter values.

14 So the portion of the specification that I was just
15 talking about there was the '881 Patent at column 6, lines 56
16 to 65.

17 TQ Delta points to the patent's discussion of using
18 buffers, but as we explained in our briefing, and as TQ Delta
19 concedes in its reply brief, the use of buffers is a different
20 -- is a completely different embodiment than what was -- what
21 is claimed this claim 17, 18 of the '881 Patent. And you'll
22 see in the reply brief at page 5, they -- in the parenthetical
23 they say, "regardless of the embodiment, understanding that
24 it's not directed to what's being claimed."

25 And also using buffers as described in the patent does

1 not reduce a difference in latency. There's no -- there's
2 nothing done on the latency -- done to latency on the lines
3 based on the use of buffers. One line is simply held up while
4 waiting for data on the other line to arrive, and so the
5 latency on the lines is not affected at all.

6 So given that, we still believe that a person of ordinary
7 skill in the art would not be able to understand what a
8 reduction in the difference in latency is between two bonded
9 transceivers.

10 THE COURT: If you look at the specification of the
11 '881 Patent here, particularly the description at column 6,
12 lines 10 through 15, doesn't that really provide a context for
13 understanding latency in this patent? Are you telling me that
14 the specification just leaves you uninformed as to the concept
15 of latency and a reduction that would follow?

16 MR. ONG: So column 6, lines 10 to 16, that's just
17 describing what configuration latency is and what transmission
18 parameter values can be used to affect configuration latency.

19 THE COURT: Isn't part of your indefiniteness
20 argument that a person of ordinary skill couldn't read this
21 and know what to do? Doesn't this impart a pretty clear
22 understanding of 'configuration latency'?

23 MR. ONG: Well, it's not the -- our indefiniteness
24 argument is not based on the understanding of 'configuration
25 latency'; it's determining the difference between -- or

1 whether there is a reduction in the difference in
2 'configuration latency', and that's the issue, because --

3 THE COURT: I mean, you have to understand the
4 concept of 'configuration latency' before you get to an
5 ability to understand the reduction issue. Right? I mean,
6 we're not talking about just what does it mean to reduce
7 something, are we?

8 MR. ONG: Right. So I think -- having an
9 understanding of what 'configuration latency' is is not
10 sufficient to arrive at understanding what it means to reduce
11 a difference in configuration latency, because there's
12 no -- again, back to -- there's no --

13 THE COURT: I'm not saying that understanding
14 'configuration latency' in and of itself answers the entirety
15 of the issue; I'm just saying it's part of how you get there.
16 And doesn't the specification give you that in this column 6,
17 lines 10 through 15, understanding that there's more to
18 meeting the claim language than merely understanding
19 'configuration latency'?

20 MR. ONG: I think I can agree with Your Honor that
21 column 6, lines 10 to 16, does give a person of ordinary skill
22 an understanding of what 'configuration latency' is.

23 THE COURT: Okay. That was really the point I was
24 trying to make. And I concede that's not the entirety of the
25 inquiry.

1 MR. ONG: Okay. I apologize, Your Honor.

2 I think that's all I have, unless you have any further
3 questions on that term.

4 THE COURT: Let's talk a minute about your
5 alternative here. Tell me why 'minimize' is appropriate over
6 'reduce'.

7 MR. ONG: Sure. Sorry.

8 With respect to 'minimize', I think that goes back to the
9 sole disclosure in the patent relating to what they say is
10 reducing the difference in latency for the configuration
11 latency, and that goes to setting the transmission parameter
12 values so that the configuration latency is the same on both
13 lines.

14 And because you're basically setting it to zero, that's
15 why we believe that 'minimize' is a proper term, because
16 otherwise, your -- it kind of goes back to the issue of you
17 still don't know whether there is a reduction as opposed to if
18 you use the term 'minimize', then you are able to then -- then
19 this disclosure kind of explains what that is.

20 THE COURT: Are you telling me that setting it to
21 zero is the only way you can do it; therefore, it's always got
22 to be set to zero; therefore, it's always got to be absolutely
23 minimized? Is that the argument?

24 MR. ONG: As disclosed in the patent, yes.

25 THE COURT: Okay. All right. What else?

1 MR. ONG: Nothing further on that term, Your Honor.
2 Thank you.

3 THE COURT: Okay. Thank you.

4 All right. Let me ask you this, counsel. Item 7 here,
5 hasn't this really already been covered? Do we need to argue
6 this separately before we go on to 'shared memory'; the 'each
7 bonded transceiver utilizing/selecting at least one
8 transmission parameter to reduce a difference in latency
9 between the bonded transceivers'? I mean, didn't we just
10 cover that, in essence.

11 MR. HURT: Yes. Christian Hurt for the Plaintiff.

12 Yes, Your Honor, those two terms were briefed together,
13 argued together. There's no separate argument, at least from
14 Plaintiff's view, between the two -- what is item 6 in the 4-3
15 chart and item 7 in the 4-3 chart.

16 THE COURT: Do you agree with that, Mr. Ong?

17 MR. ONG: We do, Your Honor.

18 THE COURT: Okay. Then let's move on, in light of
19 that, to 'shared memory'/'sharing the memory'/'a memory
20 wherein the memory is operable to be shared.'

21 Let's start with Plaintiff.

22 MR. McANDREWS: Good morning, Your Honor. Peter
23 McAndrews for Plaintiff.

24 THE COURT: Go ahead, counsel.

25 MR. McANDREWS: So the dispute with 'shared memory'

1 is TQ Delta wants to stick with the construction that was
2 provided in Delaware. Defendants want to go with plain and
3 ordinary. And the reason for that is because there's two
4 types of what they would potentially call shared memory that
5 are inconsistent with the usage of the term in the patent
6 specification and in the claims.

7 So the claims speak to allocating memory. I'm sorry.
8 The claims speak to 'allocating shared memory between an
9 interleaver function and a deinterleaver function'. The
10 construction that Judge Andrews provided was 'common memory
11 used by at least two functions where a portion of the memory
12 can be used by either one of the functions'.

13 And what this construction does is it eliminates two
14 other types of memory that the Defendants we believe would
15 like to call shared memory. One of them is -- and it's best
16 to look at figure 1 of the patent just for a baseline here.
17 So in figure 1, it shows a shared memory element 120 that sits
18 between the transmitter portion that has interleavers in it
19 and the receiver portion that has deinterleavers in it. This
20 is a single transceiver, so it transmits information outward
21 and it receives information inward; it interleaves for data
22 leaving the device; it deinterleaves for data entering the
23 device.

24 So one of the types of memory that they'd like to call
25 shared memory is something called interprocess memory where

1 what it would require is the deinterleaver and interleaver of
2 the same device are using this memory block to pass
3 information to each other. And, of course, that doesn't make
4 any sense. This transceiver is communicating with a device on
5 the other end of the line, so it doesn't make any sense for
6 the interleaver to be communicating through the shared memory
7 with a deinterleaver. So that's one thing that Judge Andrews'
8 construction eliminates.

9 The other thing that Judge Andrews' construction
10 eliminates is merely having a common pool of memory where some
11 portion of it is used for the interleaver and another portion
12 is used for the deinterleaver, but those can never cross over;
13 you can never -- you have a hard line -- yes, it's a common
14 pool of memory, but there's a hard line where a particular
15 portion of that memory will only ever be used for one
16 function, like the interleaver, and the other portion will
17 only ever be used for the deinterleaver.

18 The reason why we know that that's inconsistent with the
19 specification, Your Honor, and it's actually best illustrated
20 by the examples provided in column 6, 7, and 8 of the patent,
21 and so it's describing a common pool of memory of the amount
22 of 20 kilobytes, and then it gives examples of different types
23 of allocations. In one allocation, one latency path, so the
24 interleaver, for example, is using 16 kilobytes of memory of
25 the 20; the other latency path, the deinterleaver, for

1 example, is using four kilobytes, and so we've got a 16/4
2 split within the 20 kilobytes of memory. That's example 1.

3 Example 3 describes where, instead, you have one latency
4 path is 10 kilobytes and the other latency path is 10
5 kilobytes, you still have a total of 20, but now six of the
6 kilobytes of memory that were once used for the interleaver
7 are now being used for the deinterleaver. And so the concept
8 is you have this flexible memory that allows some portion of
9 it to be used for one function at one time and a different
10 function at another time.

11 There's actually -- while it's not describing this, one
12 way to think of how prior art would have worked is in column
13 8, around line 15, it's describing three latency paths, so
14 perhaps two interleavers and a deinterleaver, and it's saying
15 each of them could be a maximum of 16 big, 16 in size.

16 In the prior art when you had -- even if you had a common
17 pool of memory, those would -- there would be a hard line
18 dividing them, so you would need 48 kilobytes of memory.
19 You've got 16, 16, and 16. But what this is saying is that's
20 the maximum I can use for any particular latency path, but
21 then it gives a third -- I'm sorry. It gives an additional
22 restriction and says, Well, I only have a 20 of total shared
23 memory, so now we've got to figure out how to divide that up.
24 So we can use 20, but we can't use the full maximum on any
25 particular latency path.

1 So these examples are illustrating the idea of common
2 memory, but common memory where some portion of it is -- can
3 be used for interleaving at one time and deinterleaving at
4 another time.

5 THE COURT: Does 'can be used for interleaving at
6 one time and can be used for deinterleaving at another time'
7 necessarily equate to 'at some time must be used'? I mean,
8 does the ability to use this flexible memory, it's -- does it
9 mean that over time it will necessarily have to be used in
10 both functions?

11 MR. McANDREWS: Your Honor, it does not mean that.
12 It would mean that you have hardware set up, so, first of all,
13 that the memory hardware is accessible by both the interleaver
14 and deinterleaver functions, so that would be one thing that
15 is a requirement for it to be capable of or that it can do
16 this. The other thing is the way the source code is written
17 is the source code could take that common block of memory and
18 decide ahead of time, I'm going to divide it so no function
19 can ever step over the other guy's line. You know, the
20 example would be I divide a 20 kilobyte memory into ahead of
21 time so it is always 10 for one function, 10 for another
22 function. That would be a situation where 'can' doesn't work.
23 The source code itself set up that memory so that you can't
24 step over the line into the other space.

25 But if the source code allows flexibility in assigning

1 portions of the memory to the interleaver and the
2 deinterleaver, and we intend to show that through our
3 infringement proofs, that would be a capability -- that would
4 be the capability of allocating one portion to the interleaver
5 at one time and allocating that same portion to the
6 deinterleaver at another time. It doesn't --

7 THE COURT: I understand that. But I guess what I'm
8 trying to get you to address for me is your understanding of
9 the Delaware construction of memory can be used doesn't
10 involve or include the concept that over time it eventually
11 must be. It doesn't have to be; it just can be.

12 MR. McANDREWS: That's correct, Your Honor.

13 THE COURT: Okay.

14 MR. McANDREWS: So if the device would infringe as
15 sold as opposed to you'd have to observe it during the course
16 of its actual use by a particular customer.

17 THE COURT: Okay. That's what I wanted you to touch
18 on.

19 What else here?

20 MR. McANDREWS: I think that's it for Plaintiff for
21 now, Your Honor.

22 THE COURT: And you're not proposing anything
23 different for these claim terms that were not previously
24 construed in Delaware; you're just effectively saying it's all
25 subsumed by the one construction?

1 MR. McANDREWS: That's correct, Your Honor. I mean,
2 possibly, you know, adjusting obviously for the context, but
3 'shared memory', 'sharing memory', 'configured to be shared',
4 'operable to be shared', they all are the same concept of a
5 portion of the memory can be used for the interleaver at one
6 time and the deinterleaver at another time.

7 THE COURT: All right. Thank you, counsel.
8 Let me hear from Defendants, please.

9 MR. MARAIS: Thank you, Your Honor. Nic Marais on
10 behalf of Defendants.

11 THE COURT: Please proceed.

12 MR. MARAIS: Thank you.

13 As an initial matter, I just want to point out --

14 And if I can please switch to the elmo.

15 So what TQ Delta seems to be arguing in this case is the
16 notion that a shared memory here, or at least their
17 construction of a shared memory encapsulates all shared
18 memories. The one thing I just want to point out is that is
19 not how the Delaware court construed this term.

20 If we look down here, we can see that the Delaware court
21 indicated that the Plaintiff points to two different types of
22 shared memory, and those are the types that Mr. McAndrews
23 pointed to earlier, that are unlike the shared memory
24 described in the patents. And what it ultimately concluded
25 is, based on those two different types it said over here, What

1 we're going to do is we're going to adopt this language--the
2 common memory can be used by either one of those functions.

3 So while we are -- Your Honor's point that 'can be'
4 doesn't necessarily require, that does make us a lot more
5 comfortable with their position that they are not necessarily
6 requiring that a portion of the memory -- or at least that
7 there's ever a second allocation that actually shows a single
8 portion of the memory or a single block of memory being
9 allocated to two different portions, we still believe what
10 TQ Delta is trying to get at is they are reading out two
11 embodiments of a shared memory, and -- at least a shared
12 memory that a person of ordinary skill would understand a
13 shared memory to be.

14 Now, where we think the Delaware court erred, Your
15 Honor --

16 Do you mind, can we please switch back here?

17 Is we think the Delaware court erred by importing a
18 limitation of the claims that is not in every single claim,
19 and that really just describes a particular use case of a
20 shared memory. And they are importing that limitation into
21 every single time you see the term 'shared memory'.

22 So what I have up here on the slide, Your Honor, is a
23 claim 9 of '882 Patent. And we can see it says 'shared
24 memory' a number of times. And then we have the '608 Patent,
25 claim 2, which is part of the same family, and here we see at

1 the top it says 'a memory is operable to be shared'. So
2 again, that's just the same term as 'shared memory', and the
3 parties agree that that's -- those terms are being construed
4 consistently.

5 But what that term ultimately does -- or what this claim
6 ultimately does is it goes on to explain how that sharing
7 actually happens. And it says here, "The sharing comprises
8 using a first portion of the memory for the interleaver
9 function and simultaneously using a second portion of the
10 memory different than that for the first portion for the
11 deinterleaver function." And then, importantly, it goes on
12 and says, "and the first and second portions of the memory are
13 configurable such that one or more bytes of the memory can be
14 used by the interleaver function at one particular time, and
15 the same one or more bytes of the memory can be used by the
16 deinterleaver function at a second time."

17 And so it's our view is that everything that's underlined
18 in red there, Your Honor, aligns with a second clause of
19 TQ Delta's construction, which is where a portion of the
20 memory can be used by either one of those functions. And
21 every time you see 'shared memory' in claims like the '882
22 Patent--it's also in a number of other patents--it does --
23 that does not include this limitation. What we understand TQ
24 Delta to be trying to do is import this entire limitation into
25 that.

1 THE COURT: And is that to avoid some prior art?
2 What's the rationale behind it? Usually that's what's behind
3 it when the plaintiff tries to import a limitation, as opposed
4 to defendant who's trying to avoid infringement.

5 MR. MARAIS: That's exactly right, Your Honor.

6 And if we can switch back to the elmo.

7 So sideways is a little tricky here. If you look here --
8 so starting from 'second' at the bottom of the page here, it
9 says, "Second, and Plaintiff notes that yet another type of
10 shared memory, known as ping-pang memory both involves
11 transmission in a single direction and uses a shared memory
12 exclusively for an interleaver or for a deinterleaver at any
13 one time."

14 Now, this ping-pang memory is a term that comes directly
15 out of one of our prior art references, Your Honor, and often
16 it's actually referred to as ping-pong memory, so we know it
17 comes out of that reference because it's one of the few
18 references that would refer to as ping pang instead. And what
19 the court ultimately did in the claim construction is it
20 effectively read out this prior art reference by narrowing the
21 claim language.

22 THE COURT: Okay. What else?

23 MR. MARAIS: So the only other thing I would add,
24 Your Honor, is that ultimately the --

25 Well, let me switch back.

1 Ultimately we agree that a shared memory is, you know, a
2 memory that would be used by two or more functions, but
3 ultimately it just has to have the ability to allocate that
4 memory amongst those different functions. It doesn't have to
5 do it. It doesn't ever have to have a second allocation of
6 that memory. It doesn't ever have to -- even if it does have
7 a second allocation of that memory, a single particular block
8 of that memory does not necessarily have to service as two
9 functions. You can have an allocation, as Mr. Hurt was
10 talking about, or -- I apologize -- as Mr. McAndrews talks
11 about the example where you have 16 bites and four bytes,
12 there could be an allocation that re-allocates to 12 bytes and
13 two bytes. A portion or a single block of that memory would
14 never have overlapped between those functions, but it wouldn't
15 changing the fact that it's still a shared memory.

16 I have nothing further, Your Honor.

17 THE COURT: Okay. Thank you.

18 All right. Let's go on to the next area of dispute
19 including 'wherein the generated message indicates how the
20 memory has been allocated between the first deinterleaving
21 function and the second deinterleaving function', as well as
22 'a message indicating how the shared memory is to be used by
23 the interleaver or the deinterleaver'.

24 I'll hear from Plaintiff, Mr. Davis.

25 MR. DAVIS: Thank you, Your Honor.

1 Just to set the stage for this term, this is a situation
2 where we are proposing plain and ordinary meaning. The
3 Defendants have adopted a construction from Delaware, but the
4 way that this construction was situated or developed is with
5 respect to a different term. And so we're essentially taking
6 the court's construction of the amount of memory portion of
7 this -- portion of this -- of the Defendants' construction was
8 in Delaware, but it came as a result of a different claim that
9 actually used the words 'amount of memory' in the claim.

10 And so we're proposing plain meaning because we think the
11 claim language is clear. It says, "Wherein the generated
12 message indicates how the memory has been allocated." We
13 think that's clear. We don't think we need a construction.
14 This claim language does not include the words 'amount of
15 memory'.

16 And so -- and as you'll see on the next slide here,
17 'amount of memory' was actually a term that was construed in
18 Delaware in a claim that uses the language 'amount to memory'.
19 So we have a different claim that doesn't use the 'amount of
20 memory'; it just says 'message indicates how the memory'.

21 So in Delaware, claim 5 of the '890 Patent, which is not
22 asserted in this case, actually uses the word 'amount of
23 memory'. And so there was a big dispute and a lot of briefing
24 about what does 'amount of memory' mean, and ultimately in
25 Delaware for that term 'amount of memory', we had proposed 'a

1 number of units of memory', defendants proposed 'number of
2 bytes of memory', and the Court said plain meaning. So for
3 'amount of memory', the Court said plain meaning, and
4 expressly rejected this notion that the amount of memory for
5 that claim was limited to a number of bytes. The term is
6 broader than 'bytes', and a jury will not have trouble
7 deciding what is or is not an amount of memory.

8 The claim here, as you can see, doesn't use the
9 word 'amount of memory'. The term here 'wherein the generated
10 message indicates how' the memory has been allocated but
11 doesn't limit it to an amount.

12 And so, you know, I imagine you'll hear from Defendants
13 that the -- you know, the construction that they have proposed
14 is a construction that the Delaware court adopted, but it's a
15 lot more complicated than that, because 'amount of memory' was
16 the term at issue. The court went plain meaning. And then
17 for the term at issue here 'wherein the generated message
18 indicates how', those issues kind of bled over and we ended up
19 proposing a construction in Delaware that did use the
20 word 'the amount', and the court adopted our construction.
21 But because of -- it wasn't -- in our view, the reason for
22 that is not because plain meaning wouldn't have sufficed; it's
23 because the initial issue started with what does it mean for
24 an amount to be -- what does an amount of memory mean.

25 And so we're in a situation here where 'amount of memory'

1 was construed in Delaware to mean plain meaning. Defendants
2 have proposed 'amount of memory' in a claim term that says the
3 message simply indicates how the memory has been allocated.

4 So we don't think it's the exact same issue, we don't
5 think that the words 'amount of memory' are necessary to
6 explain claim language as simple and straight forward as the
7 claim language we have here. And so for those reasons we have
8 proposed plain and ordinary meaning for this term, and we just
9 don't believe that these terms need to be construed at all.
10 We think they're plain on their face, and the Defendants'
11 proposed construction for 'amount of memory' is simply -- it's
12 too limiting, for one, and it's not necessary for these terms.

13 And that's all I have, Your Honor.

14 THE COURT: All right. Let me ask a question.

15 MR. DAVIS: Yes, Your Honor.

16 THE COURT: It seems that in what's been put
17 forward, the Defendants agree not to assert that the meaning
18 of this claim language is limited to indicating a number of
19 bytes of memory. That's not -- if that's true, that's not
20 enough to address your concerns?

21 MR. DAVIS: I believe it partially addresses our
22 concerns. The issue, though, is still they're importing this
23 notion that there must be an amount, an amount of memory. And
24 so while they're saying they're not going to argue that that
25 means a number of bytes, they're still going to argue

1 something about an amount, some proxy for that. And that's
2 our concern is that whatever they're going to argue about the
3 amount that the message doesn't expressly -- they don't
4 infringe because the message in their systems doesn't specify
5 an amount of memory, that that will still be problematic in
6 this case with the claims we have asserted here because the
7 claim is not limited to an amount. It says the message merely
8 has to indicate how the memory has been allocated, and it's
9 not limited to indicating how the memory has been allocated by
10 way of an amount.

11 THE COURT: Well, how do you -- as a practical
12 matter, how do you allocate memory without discussing the
13 amount of memory that is allocated? I mean, if the total is
14 12 and you say six on one side, six on the other, you've said
15 how to do it, but you've also indicated some quantity or
16 amount. Or if it's four on one side and eight on the other or
17 two on one side and 10 on the other. If you're going to fully
18 enumerate the how, how do you do that and avoid the amount
19 issue?

20 MR. DAVIS: Well, there will always be an amount
21 involved.

22 THE COURT: Agreed.

23 MR. DAVIS: So I agree with you there. The question
24 is, does the message have to indicate the amount? Does it
25 have to state the amount, or can it be -- can the amount be

1 indicated in some other fashion; can it be indicated
2 through -- I mean, in the way the systems work, whatever
3 mechanism they're using to indicate how to allocate memory, it
4 may not be expressed in an amount.

5 THE COURT: Well, I guess my question is, when you
6 look at the language 'wherein the generated message indicates
7 how the memory has been allocated', how do you do that and
8 avoid covering, to some extent, the amount, given that there
9 is an amount that will be employed? I mean, are you talking
10 about some kind of fractional differentiation, half here, half
11 there; third here, two thirds there; but you haven't
12 identified a precise number of bytes, even though the amount
13 of memory is going to be a known quantity?

14 MR. DAVIS: Correct.

15 THE COURT: I'm just not sure how you meet the claim
16 language and avoid the concept of an amount.

17 MR. DAVIS: Well, I think that Your Honor just
18 provided one example. It could be expressed as a fraction, it
19 could be expressed as a percentage, it could be expressed as
20 some indication relative to speed, the speed of the
21 transmissions. We want to make sure that we're operating
22 within certain parameters, and in order to do so we have to
23 allocate certain memory, certain amounts of memory.

24 So yes, the -- and I do believe that, you know, the
25 Defendants' construction, even the word 'indicates' provides

1 some breadth there to give us some flexibility.

2 And, you know, this is what the Delaware court went with.
3 And I don't believe that their construction actually limits it
4 to a specific number of bytes or a specific amount. In other
5 words, it does provide flexibility to convey memory allocation
6 in other ways, such as fractions or percentages or operating
7 within certain parameters.

8 But at the end of the day, we're dealing with different
9 claim language that merely requires that the message indicate
10 how the memory has been allocated. It doesn't say 'indicate
11 the amount of memory that has been allocated'. And so we're
12 importing a limitation that's just not in the claims.

13 And as far as I understand Defendants' argument, they're
14 primarily just relying on Delaware saying, This is what they
15 did in Delaware, this is analogous to a different claim where
16 the Defendants -- analogous to an issue where Plaintiffs
17 proposed this. So we're in a situation where they haven't
18 really articulated any reason for why 'amount of memory' needs
19 to be in the claim, and the claim language itself is broader;
20 it simply says indicate how.

21 THE COURT: Let me ask you another question. Claim
22 9, as construed by the Delaware court, does adopt this concept
23 of the amount of memory, and my understanding of that process
24 in Delaware was that it was driven by the presence of the
25 word 'allocated' in the claim language. Claim 10 here doesn't

1 use the word 'allocated', or any variation thereof. The
2 Defendants take the position here that, nonetheless, the plain
3 and ordinary meaning of the language in claim 10 also
4 encapsulates the concept of amount of memory. You've told me
5 it ought to be plain and ordinary meaning in both cases.

6 It looks like to me there may be a difference here on
7 claim 10 between what Plaintiff views as the plain and
8 ordinary meaning and what Defendant views as the plain and
9 ordinary meaning.

10 Comment for me on the propriety or impropriety of
11 incorporating the concept of 'amount of memory' in the plain
12 and ordinary meaning of the disputed language in claim 10,
13 understanding that claim 10 doesn't have the
14 operative 'allocate' or 'allocated', as claim 9 does.

15 MR. DAVIS: Absolutely, Your Honor. And I
16 believe --

17 THE COURT: I hope that was a clear question.

18 MR. DAVIS: I think I understand. I think I
19 understand your question. And if I could briefly summarize it
20 just to make sure, I think you're saying, you know, claim 9
21 uses the word 'allocated'; claim 10 doesn't; and is there a
22 difference with respect to whether or not the 'amount of
23 memory' should be in the construction of either or both of
24 these terms.

25 We have treated them the same. We've grouped them

1 together. I believe Defendants, at least in their briefing
2 did the same. I don't know if they'll agree with it today or
3 whether they'll offer up a different construction for claim
4 10, but we don't believe that the issue of the amount of
5 memory in the message has to be -- is really driven by the
6 fact that claim 9 uses 'allocated' and claim 10 does not. I
7 just don't -- I don't think that that really speaks to the
8 issue of should the construction -- should there be a
9 construction that requires the message to indicate the 'amount
10 of memory'.

11 THE COURT: It seemed to me--and I may be wrong--it
12 seemed to me that the process in Delaware was, at least to
13 some extent, driven by that difference, and that the concept
14 of 'allocating' in claim 9 is, at least to some extent, the
15 support found by the Delaware court for the use of the 'amount
16 of memory' language in its construction. And if that analysis
17 after the fact on my part is correct, then the absence of the
18 word 'allocated' in claim 10 would seem to indicate maybe a
19 different result. But I want you, and I'm going to ask
20 Defendants, to give me their view on that issue.

21 MR. DAVIS: Yes, Your Honor. I think that is true.
22 And to some extent, I mean, the Delaware -- the way the
23 Delaware construction process unfolded for this term, again, I
24 think it was largely driven by the fact that in claim 1 of the
25 '890 Patent there was a term 'amount of memory', and by the

1 time we got to the 'wherein' clause here for -- in Delaware
2 that's also at issue here, the Plaintiff had proposed a
3 construction that did indicate an amount. And that may have
4 been driven by this allocation feature.

5 I don't believe that for us it necessarily drives the
6 dispute here, because we're simply saying -- we don't
7 necessarily think the Delaware construction was incorrect; we
8 just don't believe that a phrase like 'wherein the generated
9 message indicates how the memory has been allocated' really
10 needs a construction, and the fact that Defendants want to
11 propose an 'amount of memory' is just not necessary. So I
12 guess that's a long way of answering --

13 THE COURT: The last thing I want to do is say,
14 You're both right, it's plain and ordinary meaning, nothing
15 else is needed, and then down the road Defendants say, Well,
16 that plain and ordinary meaning must include the concept of an
17 amount of memory, and you say it must not, and then we're back
18 to the proverbial *02 Micro* conundrum I'm trying to avoid.

19 MR. DAVIS: And I understand. I understand, Your
20 Honor. And, I mean, the claim language itself -- under -- you
21 know, built into the concept of indicating how memory is
22 allocated necessarily results in an amount. The question is
23 does the message itself have to specifically indicate the
24 amount in some unit versus some other way.

25 And I guess that's where, again, we don't -- we don't

1 necessarily disagree with the Delaware court's construction or
2 this -- the fact that the message does indicate the amount.
3 It's really a situation where the claim says how the message
4 must indicate how the memory has been allocated. We've got
5 additional language in here that it -- that's just not
6 necessary, and appears to be limiting the claims.

7 And even with Defendants' admission or concession in
8 their response brief that they're not going to argue that it
9 requires the number of bytes, we still think that there's some
10 other issue there with respect to how they're reading that
11 term. And they haven't expressed it -- they haven't
12 articulated what that is; they just say we want a construction
13 that indicates the amount. And so we really just don't know
14 what they mean by that.

15 THE COURT: It sounds like there's a lack of trust
16 here, counsel.

17 MR. DAVIS: Your Honor, I admit there may be.

18 THE COURT: All right. Anything further, Mr. Davis?

19 MR. DAVIS: No, Your Honor.

20 THE COURT: Let me hear from Defendants.

21 MR. MARAIS: Thank you, Your Honor. Nic Marais on
22 behalf of Defendants.

23 THE COURT: Please proceed.

24 MR. MARAIS: I'll address your question first, Your
25 Honor, and that is, is there a difference between these two

1 terms--the wherein the generated message indicates how the
2 memory has been allocated between the interleaving function
3 and the deinterleaving function a message indicating how the
4 shared memory is to be used by the interleaver or the
5 deinterleaver.

6 And I absolutely agree with you, Your Honor, that the
7 hook for the Delaware court was the term 'allocated'. The --
8 where we would push back on that is that ultimately what we're
9 looking at here are -- is the language 'how the memory has
10 been allocated' and comparing that to 'how the shared memory
11 is to be used'.

12 And if you look to the specification, which is where the
13 Delaware court looked to understand how the memory has been
14 allocated, every time an allocation is talked about in the
15 specification, or every time the specification talks about how
16 the memory has been allocated, in the same way every time the
17 specification talks about how the shared memory is to be used
18 it talks about an amount. And so when you're reading this
19 claim language in the context of the specification and
20 applying some level of lexicography here, the specification
21 tells us that the only way this is actually being considered
22 is when it's talking about an amount of memory that's being
23 allocated.

24 THE COURT: Well, if 'allocated' is the hook, as you
25 say, for the court in Delaware arriving at the construction

1 that implements the concept of 'amount of memory', why is that
2 missing hook in claim 10 still going to give you a plain and
3 ordinary meaning that continues to carry forward the concept
4 of 'amount of memory'? Because that's what you're telling me
5 the plain and ordinary meaning of the claim 10 language is,
6 but to use your own language, it's missing the hook.

7 MR. MARAIS: So what I would say to that, Your
8 Honor, is I don't agree that it's missing the hook; I agree
9 that it's missing the allocation hook that the Delaware court
10 relied on. The hook here for that language is the term used
11 'used'. And so here we have 'how the memory is to be used',
12 'how the memory has been allocated'. The specification treats
13 those terms -- or treats as uses consistently. And so the
14 hook for that language would just be 'used'.

15 And if we go to some of the language in the
16 specification, I won't walk through every single example here,
17 but every time it talks about how the memory has been
18 allocated or how the memory is being used, it's talking about
19 an allocation of an amount of memory. So for the first
20 example, it talks about 16 kilobytes of memory for the
21 interleaver. The second example, 16 kilobytes of interleaver
22 memory at the transmitter or deinterleaver memory at the
23 receiver. There is not other language in the specification
24 that would -- you would look to and say, Okay, well, that
25 could maybe mean how memory is being used versus how memory is

1 being allocated.

2 So, respectfully, I would just say that those -- while
3 the Delaware court relied on that hook, the same hook exists
4 in claim 10 and it's just the term 'used'.

5 And another point I would point out is that what this
6 claim language requires is a message, and it's that message
7 that's indicating how the memory has been allocated and the
8 message that indicates how the memory is to be used. And as
9 Your Honor pointed out, when you're looking at or considering
10 what that message is actually doing, we have two the
11 transceivers, the remote transceiver and the office
12 transceiver, VTUR and VTUO, and they are communicating during
13 initialization. That's what the patent specification's
14 contemplating here. And in that initialization procedure,
15 there is a message that's communicated. And if we look to
16 figure 2 of the patent, that message may indicate 'allocating
17 the shared interleaver and deinterleaver memory'.

18 Now, it would make sense to consider when you're looking
19 at what the message is actually allocate -- or what the
20 message is actually indicating, that it would be an amount of
21 memory so that these transceivers know how to set up and
22 configure their settings.

23 THE COURT: All right.

24 MR. MARAIS: The final point I'll make, Your Honor,
25 is just one thing that Mr. Davis said that I disagree with is

1 where he said he disagrees that the claim language is the
2 same, and what he did was he pointed to the claim at issue in
3 the Delaware court and he points to a limitation that we're
4 not asking this Court to construe. He pointed to a limitation
5 that said the 'amount of memory' and -- but that's
6 just -- it's not at issue here. What we're looking at here is
7 a term that TQ Delta proposed to the Delaware court and that
8 the Delaware court adopted in its entirety. And so for that
9 reason we believe that TQ Delta is actually estopped for
10 arguing for a term, at least as to this first term, the 'how
11 the memory has been allocated' term, we believe that they are
12 estopped from arguing for a different construction because
13 it's a position they affirmatively put forth and that the
14 Delaware court relied on and ultimately adopted.

15 THE COURT: And that estops them in this Court, or
16 does it estop them from taking a different position at a later
17 time in the Delaware court?

18 MR. MARAIS: Your Honor, we believe that it estops
19 them from taking a different position just generally. So --

20 THE COURT: Anywhere.

21 MR. MARAIS: Anywhere; yes, Your Honor. That's
22 right.

23 THE COURT: All right. Well, do you have anything
24 else for me?

25 MR. MARAIS: Nothing further, Your Honor. Thank

1 you.

2 THE COURT: Okay. Thank you.

3 Let's turn to the next disputed term or claim language
4 'specifying a maximum number of bytes of memory that are
5 available to be allocated to an interleaver/deinterleaver'.

6 Let me hear from the Plaintiff.

7 MR. DAVIS: Thank you, Your Honor. Bo Davis on
8 behalf of the Plaintiff.

9 THE COURT: Can I get your take on one issue that
10 came to mind before I hear your argument, and that is, do you
11 agree, Mr. Davis--and I'll ask the Defendants the same thing
12 when it's their term--but do you agree that it's the message
13 that specifies; not something else?

14 MR. DAVIS: For this term, Your Honor?

15 THE COURT: For this term.

16 MR. DAVIS: Yes, Your Honor.

17 THE COURT: Okay. Now go ahead and tell me why
18 plain and ordinary meaning without any construction is
19 appropriate here.

20 MR. DAVIS: Well, I guess as an initial matter, Your
21 Honor, I just want to point out that, you know, we believe
22 this term was actually agreed to, and we were a little
23 surprised in the response brief when we received Defendants'
24 argument about it.

25 The 'specifying a maximum number of bytes of memory that

1 are available to be allocated', the term itself already has
2 the language that the Defendants are proposing for
3 construction. Their construction is where the message must
4 specify a maximum number of bytes. Well, the only difference
5 between their construction and the claim language is they've
6 inserted the word 'must' ahead of 'specifying'. I don't know
7 what they mean by that or what their -- why they think there's
8 a claim scope dispute. I -- frankly, it's just confusing. I
9 don't really understand their position.

10 And again, it wasn't really briefed because up until the
11 -- you know, up until our opening brief, this was the state of
12 play with respect to this term. It was plain and ordinary
13 meaning. And so I'm just -- I don't know exactly what they
14 mean, so I'm a little bit at a loss as to how to respond to
15 what their construction actually adds or what the claim scope
16 dispute is here. But --

17 THE COURT: Let's do this, then.

18 MR. DAVIS: Yes, Your Honor.

19 THE COURT: Let he hear from Mr. Stevens, and then
20 after he's given me that explanation and along with other
21 argument I'll let you have a shot at it.

22 MR. DAVIS: Thank you, Your Honor.

23 MR. STEVENS: So the answer to your question is yes.

24 THE COURT: Okay.

25 MR. STEVENS: The message must specify.

1 THE COURT: Or it is the message that specifies?

2 MR. STEVENS: Yes, sir.

3 THE COURT: Okay.

4 MR. STEVENS: So I think the dispute here, Your
5 Honor -- you brought up not wanting an *02 Micro* fight later on
6 in this case, and that's why we're raising this now, to put
7 everyone on notice that we think there is a lurking fight here
8 about this particular construction and what it means and what
9 it doesn't mean.

10 It's absolutely right that our construction is simply the
11 words of the claim. You know, we think that must happen. If
12 all parties agree that the message must specify a maximum
13 number of bytes of memory, if we're all on the same page that
14 the message must say something like max bytes equals 20, no
15 fight at all. But I urge, Your Honor, that that's not going
16 to be the case here in a couple of months; that there's going
17 to be a different construction brought to you when we get a
18 little bit further in the case.

19 Now, if they're willing --

20 THE COURT: What's your crystal ball tell you that
21 that future construction from the Plaintiffs is going to be?

22 MR. STEVENS: They're going to point to something
23 that specifies a minimum number of bytes. So, for example, if
24 the claim language were, I specify to Judge Gilstrap the
25 maximum speed he's allowed to drive home today, I say Judge

1 Gilstrap can drive home no faster than 50 miles per hour, the
2 analogy would be someone could come to you and say, No, no,
3 no, no, no, you have 15 minutes to get home; that's the
4 maximum amount of time; you need to drive at a speed -- you
5 know, that's the minimum speed that you can get home. That's
6 what we're going to see later in this case--that they're not
7 going to point to something that is a max number of bytes;
8 they're going to point to something that is a minimum number
9 of bytes. That's going to be the fight that we're going to
10 have here in a few months, and fear we're going to be right
11 back in front of you with an *02 Micro* fight.

12 Now, if counsel for the Plaintiff is willing to get up
13 here and say, That's -- Mr. Stevens is crazy, he's wrong, you
14 know, we're not going to point to anything that says max bytes
15 equals a number, then maybe there isn't a fight, but if
16 there's going to be a different interpretation in this case or
17 a different argument that this claim is somehow satisfied by
18 an entirely different parameter, I think we should hear that
19 today. I think we should hear today what Plaintiff's position
20 is going to be with respect to what it actually takes to
21 satisfy this limitation.

22 We think it's very simple. Right? There has to be a
23 message. The message must specify a maximum number of bytes
24 of memory. If we all agree that that parameter must be
25 specified in the message, then maybe we don't have a fight.

1 But if there's going to be some other interpretation or some
2 other definition offered, I do think that, as the Defendants,
3 we believe we should be entitled to hear that today.

4 THE COURT: All right. Well, let's go around the
5 merry-go-round one more time.

6 Having heard that, Mr. Davis, let me hear your response.
7 I'm not sure how you specify a maximum number by specifying a
8 minimum number, but go ahead and tell me what your reaction
9 is.

10 MR. DAVIS: I'm not either, Your Honor. And what I
11 heard Mr. Stevens say is he wants to basically decide an
12 infringement issue without any record of it, and he's -- he is
13 assuming that we are going to be pointing -- what I heard him
14 say is they're going to point to something that says
15 'minimum'. You know, I'm not sure what he's referring to, but
16 the claim says 'maximum'. So it seems to me, like, if we're
17 at the summary judgment stage and we're pointing to something
18 that says 'minimum' and doesn't have anything to do with
19 'maximum', then, you know --

20 THE COURT: You may be in a bad position.

21 MR. DAVIS: We may be in a bad position. That's
22 correct, Your Honor.

23 And I just -- you know, I could take a stab at telling
24 you our infringement theory on their product at this point,
25 but I don't think that's the purpose of claim construction--to

1 pre-try or pre-judge or have Mr. Stevens try to pin us down on
2 a very specific the message must say 'max bytes equals X'
3 construction when that's not a construction they've proposed.

4 And the word says 'maximum'. And the example he said is
5 they're going to point to something that says 'minimum'. I
6 don't -- that's not right, Your Honor. And so the claim
7 language itself addresses Mr. Stevens' concern where the claim
8 says 'blue' and we're pointing to something that's white. I
9 mean, if it's as binary and completely orthogonal as
10 Mr. Stevens suggested, then, you know, that's -- I think
11 that's a summary judgment issue and not a claim construction
12 issue where they're proposing the exact same word that's in
13 the claim.

14 And it's just -- it's really not appropriate to engage
15 in -- to let the ultimate infringement question be litigated
16 at the claim construction stage without a record of any of
17 that.

18 That's our position, Your Honor. So we believe plain and
19 ordinary is appropriate here.

20 THE COURT: Well, there's no dispute that both sides
21 say plain and ordinary is appropriate. There seems to be some
22 concern as to what plain and ordinary would be here. But I
23 agree, at this point in the process I don't know how either
24 the parties or the Court say 'max number of bytes equals X'
25 must be a part of what is shown. Whatever is going to be

1 shown is going to be shown, and if it specifies a maximum
2 number of bytes of memory, then it's going to meet this
3 limitation; and if it doesn't, it doesn't.

4 And, quite honestly, by the time we get to summary
5 judgment, both sides are going to know what the other side's
6 position is a lot better than they may speculate about it
7 today. And if at that point the Plaintiff's position has
8 something to do with something other than the maximum number
9 of bytes, whether it's by saying you have this much time to
10 get home, you can drive any speed you want to, rather than you
11 can't go above 50 miles per hour, that's the kind of thing I
12 would expect to take up and rule on at summary judgment.

13 So I'm going to decline the polite invitation from both
14 sides to go beyond plain and ordinary meaning at this point.
15 But I'll say this, especially in light of this discussion,
16 I'll also decline any opportunity or invitation from either
17 side to open an *02 Micro* discussion post-summary judgment
18 where one side or the other would have and should have and
19 could have raised this issue then.

20 So it looks like to me I may well be revisiting this at
21 summary judgment, but I'm happy to wait until summary
22 judgment; just don't fail to raise it at all at summary
23 judgment and then try to tell me in the middle of jury
24 selection we've got an *02 Micro* problem.

25 But with that, I don't think there's any other benefit to

1 arguing this other than letting me apply plain and ordinary
2 meaning, and we'll take it from there.

3 MR. DAVIS: Thank you, Your Honor.

4 THE COURT: Okay. Let me jump ahead for one thing,
5 counsel, so I don't overlook it, because it's quite clear
6 we're not going to get through every one of these disputed
7 claim terms for argument.

8 Item 24 on our list looks like to me that there is really
9 no alternative construction proposed by Defendants, and,
10 consequently, I'm reading this as being effectively agreed to
11 be plain and ordinary meaning. Am I missing something here?
12 Is there a dispute on PTMTC, packet transfer mode transmission
13 convergence code words?

14 MR. HURT: Christian Hurt for the Plaintiff.

15 I assume Your Honor's referring to the numbering in the
16 Plaintiff's 4-3 chart?

17 THE COURT: Yes.

18 MR. HURT: Yes, Your Honor.

19 Plaintiff's understanding is there is no dispute. There
20 was initially a definiteness issue on this, and then
21 Defendants dropped the definiteness defense, and there was
22 never any counterproposal, and that's why that term was not
23 briefed and is not in the 4-5 chart either.

24 So your understanding -- Your Honor's understanding is
25 consistent with Plaintiff's.

1 THE COURT: That's how I came to ask this question.
2 But Mr. Stevens, I'd like to hear from the Defendant on this.

3 MR. STEVENS: That's correct. We have withdrawn our
4 § 112 defense on that and agree with plain and ordinary
5 meaning.

6 THE COURT: Good. Then that answers that without
7 waiting till we get there, if we get there.

8 Let's go back to 'phase characteristics', 'each carrier
9 signal has a phase characteristic associated with the bit
10 stream'.

11 Let me hear from the parties on this.

12 We'll start with the Plaintiff. Go ahead, Mr. McAndrews.

13 MR. McANDREWS: Thank you, Your Honor.

14 So 'phase characteristic', this term -- this is something
15 that would definitely cause an *02 Micro* problem later in the
16 case. The way this developed in Delaware is many years after
17 the Court did claim construction, this term was raised. I
18 think it came up in part in a motion in limine in the pretrial
19 order and in part on a request for reconsideration of a denial
20 of a motion for summary judgment. The Defendant asked for a
21 construction of this for the very first time.

22 THE COURT: This didn't get addressed at claim
23 construction.

24 MR. McANDREWS: It did not get addressed at claim
25 construction; it did get addressed about two to three months

1 ago, Your Honor. We had a live claim construction hearing
2 where Judge Andrews took live witness testimony from Dr. Vijay
3 Madisetti and Doctor Zimmerman, who the Defendants are relying
4 on in this case as well. And it's quite clear that what the
5 Defendants want to do with plain and ordinary meaning is later
6 on in the case they want to say, Well, because the way a phase
7 characteristic is expressed by the source code in binary form,
8 or something about it is not naturally -- would not naturally
9 be considered a phase characteristic, so we'll take advantage
10 of the fact that the jury is looking for something like an
11 angle expressed in a number of degrees, juries don't
12 understand radians, but potentially they'd be looking for
13 something expressed in degrees or radians, and that's not the
14 way computers talk to itself. Computers talk to themselves
15 using digital bits, and those digital bits have a context and
16 they mean something.

17 And so let me just jump forward to -- well, here's an
18 illustration, Your Honor. I mean, this is what a phase
19 characteristic is, if you were to illustrate it in the time
20 domain. It's simply a shifting of a sine wave in time. And
21 you can think of a cycle of the sine wave as being divided up
22 into 360 degrees, and then you can scroll forward and that
23 represents a phase, and that phase can be represented in code
24 in a number of ways. So I'm just showing a simple diagram
25 here where we've gone forward 45 degrees in time, and that

1 represents the digital bits 00; or I've gone back 45 degrees
2 in time, which is the same as going forward 315 degrees in
3 time, and that gives you the value 01.

4 It can also be illustrated in the frequency domain, and
5 I'm showing here on the screen -- actually an illustration
6 that comes out of a prior art DSL standard, the ANSI T1.413
7 standard, figure 22 of that. And what this shows is -- this
8 tiny little diagram here actually shows multiple ways to
9 represent a phase characteristic. So one way to represent it
10 is you have an XY cartesian plane here, and so if you
11 take -- and actually we've -- there's something called
12 constellation points--think of the stars in the sky, but these
13 are divided up in a grid--and each constellation point
14 represents a phase and amplitude of a wave, and each
15 individual constellation point represents a certain number of
16 data bits.

17 So on the left-hand side we have the ANSI T1.413
18 standard, and what's showing is we have four constellation
19 points that are labeled in decimal values here. We have 0 in
20 the upper right-hand quadrant, and then counterclockwise we
21 have 2, 3, 1. What I've done is I've made an illustration
22 over on the right-hand side, because computers don't speak in
23 decimal values typically, they speak in binary, and so what
24 each of those decimal values is represented in binary, a 0 is
25 00, a 2 is 10, 3 is 11, 1 is 10. So those constellation

1 points have been relabeled with how a computer would think
2 about those constellation points.

3 The XY coordinates -- and this is one way, and Doctor
4 Zimmerman agrees that this is one way to express a phase in
5 amplitude characteristic is either XY, or it's also referred
6 to as an INQ, but INQ bring in the idea of imaginary numbers,
7 so most people think of these as XY coordinates. The idea is
8 that if you have -- looking at the right-hand side, if you
9 have an X with a 1 value--and I've got a little slash
10 there--and a Y of 1, so it's plus 1 plus 1 brings you to the
11 00. If I want to get over to the 10, that would be minus 1
12 plus 1.

13 And then you can see that each of these has an angle
14 associated with it. Right? But the way of expressing this
15 phase characteristic can be any one of the things you see on
16 the screen here. So on the next slide I've kind of summarized
17 that.

18 So the way that you can express a characteristic is by
19 the group of bits that represent -- that -- by the group of
20 bits that are grouped onto a particular carrier. And I'll
21 have a next slide to show what I mean by that. Because bits
22 in a bit stream don't have a phase characteristic associated
23 with them; it's when the bit stream is broken up into the
24 constellation point, so there's -- for example, if you want --
25 if you decide you want to have two bits per carrier, you have

1 a two-bit constellation point. Once it's broken up into that
2 group, it's now for a carrier, you know you have a particular
3 phase characteristic. So you can represent a phase
4 characteristic with the grouping of bits or you can represent
5 it in any one of these other ways.

6 So one is the decimal values that we saw on the prior
7 page, one is an XY pair, so plus one plus 1 or minus 1 plus 1.
8 You can also represent it in, for example, 45 degrees or in
9 radiance π over 4. But the computer is not going use things
10 like 45 degrees and π over 4; they're going to use one of
11 these other digital representations of the value.

12 So this is really a dispute over the way a computer
13 expresses a value as opposed to over what a phase
14 characteristic is. I think the parties agree that a phase
15 characteristic is this -- if it's illustrated in the time
16 domain, it's this offset in time by which you determine the
17 information that you're sending and receiving. I don't think
18 there's any dispute over what a phase characteristic is; the
19 dispute is over how a computer will represent that phase
20 characteristic.

21 And so the concern with plain and ordinary meaning is it
22 leaves open a dispute that was resolved in Delaware. And in
23 Delaware, the dispute was resolved by construction that was
24 'one or more values that represent the angular aspect of a...'
25 and this is where we deviated from the Delaware construction.

1 The Delaware construction, the way it differs from ours is
2 rather than 'carrier signal', it's 'constellation point'. And
3 the reason why we've made that change here, Your Honor, is we
4 think that it's a little bit confusing because the
5 constellation point itself--and Doctor Zimmerman agreed with
6 this--the constellation point itself can represent the angular
7 aspect.

8 So we didn't want it to be circular. What we're talking
9 about is a phase characteristic of a particular carrier
10 signal, because each one of them is going to have a
11 constellation point; each one of them will have its own phase
12 characteristic. And so we inserted the term 'carrier
13 signal' rather than 'constellation point' because we thought
14 it was a bit circular and potentially confusing.

15 THE COURT: You made the comment this was disposed
16 of or dealt with in Delaware. I mean, this is out of claim 14
17 of the '008 Patent. The decision in Delaware arose with
18 regard to the '660 Patent. That is really unrelated to the
19 '008, but is related to the family 10 patents. Is that
20 correct? There wasn't an actual construction of this portion
21 of the language from claim 14 of the '008 in Delaware, was
22 there?

23 MR. McANDREWS: I'm sorry, Your Honor. There must
24 be some confusion in the record because that's not true,
25 that's not accurate, Your Honor.

1 THE COURT: Well, that's why I'm asking questions.

2 MR. McANDREWS: Yes. I'm sorry, Your Honor. And
3 perhaps it's something in the way we -- perhaps we have a
4 typo, but the decision that Judge Andrews recently issued in
5 Delaware was certainly with respect to the '008 Patent and two
6 other patents in the same family that used the same term.

7 THE COURT: Okay.

8 MR. McANDREWS: I believe it's the '627 and '048
9 Patent are the other two patents in the same family, family 4.
10 It was certainly directed to the family 4 patents, Your Honor.

11 THE COURT: Well, I may be mistaken, but that's why
12 I wanted to get some clarity on that.

13 Also it's clear that what we're talking about here comes
14 from two different sections of claim 14. It's your view that
15 the one construction that you put forward adequately addresses
16 both of the sections of claim language that come from claim
17 14? There's not a difference necessary between construing
18 'phase characteristics', which looks like it's on column 12,
19 line 8 or 9, of the '008, and 'each carrier signal as a phase
20 characteristic associated with the bit stream', which is in
21 column 11, it looks like lines 44, 43. I'm not sure of the
22 counting here. But obviously we've got different language
23 from the same claim that is before the Court here, and I've
24 got one proposed construction from the Plaintiff.

25 Is there some distinction between these two sections of

1 claim language that would indicate something other than that
2 one proposed construction's appropriate, in the Plaintiff's
3 view?

4 MR. McANDREWS: No, Your Honor. So 'phase
5 characteristic' or 'phase characteristics', just the plural of
6 that, we're proposing the same construction. I think the
7 additional term here that is referenced I guess only in the
8 preamble, which is 'each carrier signal has a phase
9 characteristic associated with the bit stream' --

10 THE COURT: Right.

11 MR. McANDREWS: That would -- other than the word
12 'phase characteristic', the rest of that term would take on
13 its plain and ordinary meaning. I was prepared to explain
14 what that meant. I'm not certain that there's any -- it's all
15 subsumed in the word 'phase characteristic' and how a phase
16 characteristic is expressed; it's not this issue of
17 association, although I was prepared to just briefly describe
18 that, if Your Honor is interested. And I think that the
19 discussion of how the phase characteristic is associated with
20 the bit stream will provide clarity to a term that's coming
21 two down from now, 'same bit value'. So if Your Honor would
22 indulge me, I'll just mention that.

23 THE COURT: That's fine.

24 MR. McANDREWS: This is an illustration essentially
25 of a bit stream, and then this is a showing -- this is showing

1 the association of those bits, first of all, with the carrier
2 signal. And then, as I mentioned before, once the grouping of
3 bits becomes associated with a carrier signal, that begins to
4 represent the phase. So the phase -- once the grouping of
5 bits occurs, you can represent the phase using the value of
6 the group of bits. You can represent it in any other manner.

7 So this illustration here shows the bit stream. It shows
8 you take -- you snip off two bits of that bit stream, and you
9 decide that using something called a bit allocation table.
10 The bit allocation table can decide how many bits you want to
11 put on a carrier. Here we're showing an equal number of bits
12 on every carrier, although the whole idea of DMT is that you
13 -- depending on your signal, the noise ratio available on each
14 carrier, you load a different number of bits. But to simplify
15 the discussion here, I'm showing a bit allocation table that
16 puts two bits on every carrier. Each one of those two-bit
17 groupings is now a constellation point. It has a phase
18 characteristic associated with it.

19 I'll stop here on this point. I'm going to come back to
20 a similar discussion, though, for 'same bit value', but just
21 let's keep this in mind for a couple of moments from now.

22 But unless Your Honor has any further questions about
23 'phase characteristic', I'll rest on that.

24 THE COURT: Well, I assume you'd agree with me that
25 'phase' is a well-established term of art; that there's not

1 something new or novel about the word 'phase' here.

2 MR. McANDREWS: Nothing, Your Honor. And we're not
3 attempting to import anything novel about the way a phase is
4 represented in a device either.

5 THE COURT: Okay. Tell me why you're proposing
6 'carrier signal' instead of 'constellation point' in what
7 you've proffered here.

8 MR. McANDREWS: Yes, Your Honor.

9 So if I can go back to this screen here, and this is
10 something that was -- well, it was disputed in Delaware, but
11 the way this was characterized is the top four columns here --
12 I'm sorry -- the top four rows here would be characterized as
13 a constellation point. The bottom two rows would not be
14 considered a constellation point because they leave out any
15 concept of amplitude, and a constellation point has both a
16 phase and an amplitude. Constellation point, if we look back
17 here, there is an angle of rotation off of the X axis, that's
18 an angle, but the amplitude is the distance from the origin.
19 You know, there's Pythagorean theorem, or something, by which
20 you get that distance. But that becomes the amplitude.

21 So when we -- so when we express a phase characteristic
22 using what is also considered a constellation point, the
23 construction that the Delaware court arrived at, 'one or more
24 values that represent the angular aspect of a constellation
25 point' becomes a little confusing because maybe you're looking

1 for something different than the constellation point when, in
2 fact, the constellation point itself represents the phase
3 characteristic.

4 I'm not sure it's a problem, Your Honor; it was a little
5 bit confusing to us, and we wanted in the idea that this is
6 per carrier; you know, each carrier has its own unique phase
7 characteristic; you know, not unique in the sense that it's
8 necessarily different from one to the other, but it is it's --
9 it's its own phase characteristic.

10 So we wanted -- first of all, we wanted to issue of
11 'carrier signal' in there, and we were concerned that there
12 would be some circularity to referring back to the
13 constellation point.

14 It's not critical. We think that ultimately, you know,
15 our expert is capable of explaining how a constellation point
16 itself represents the angular aspect of the constellation
17 point. I'm not sure that there's going to be -- well, I'm
18 certain there's going to be debate over that, but we -- I
19 guess what I'm saying is we wouldn't have too much trouble
20 with sticking with the Delaware construction, but we do think
21 that there is a little bit of confusion when you are talking
22 about the constellation itself representing its angular
23 aspect.

24 THE COURT: All right. What else?

25 MR. McANDREWS: That's it on the term 'phase

1 characteristic', Your Honor.

2 THE COURT: Okay. Let me hear from the Defendants.

3 MS. DONALD: This is Katherine Donald on behalf of
4 the Defendants, Your Honor.

5 THE COURT: Go ahead, Ms. Donald.

6 MS. DONALD: I think I can streamline this dispute.
7 The Defendants' construction does not provide more clarity
8 because it only represents encoding bits to a constellation
9 map, which the plain language of the claim does not
10 contemplate. And as shown here in the specification, this
11 invention is not related to only QAM modulation and, as a
12 result of TQ Delta's construction, it only injects more
13 ambiguity into the claim language than it solves.

14 For instance, as Mr. McAndrews just alluded, they're now
15 going to have to have each party put forth an expert just to
16 clarify what an angular aspect can mean in the context of
17 other modulation schemes.

18 In addition, it's going to confuse the jury by requiring
19 each party to put forth an expert to explain that the jury has
20 to look for something other than searching for an angle.

21 And finally, Your Honor, as TQ Delta's expert has
22 alluded, Doctor Madisetti, there are various ways in which a
23 phase characteristic can be expressed. And because of this,
24 we ask that you give the well-known term of the art's plain
25 ordinary meaning.

1 THE COURT: What's your problem with the
2 construction that emanated from Delaware?

3 MS. DONALD: Your Honor, the parties in Delaware
4 were arguing about limiting the claim language to QAM
5 modulation, and the plain language of the claim is not limited
6 to QAM modulation. If you're going to have one or more values
7 that represent the angular aspect of a constellation point,
8 that's going to be specifically to QAM modulation and not to
9 what a phase characteristic is understood to someone in the
10 art.

11 THE COURT: What assurances can you give me that if
12 I adopt a plain and ordinary meaning, we won't have a problem
13 down the road with *02 Micro* here?

14 MS. DONALD: Well, Your Honor, as Mr. McAndrews
15 alluded, part of their construction is based on potential
16 future infringement positions, and so I think at this point if
17 you take the plain language of what a phase characteristic is,
18 which a person of ordinary skill in the art often knows is a
19 position of a point in time, I don't think there is going to
20 be a further *02 Micro* dispute until we reach that issue.

21 THE COURT: Okay. What else do you have for me on
22 this?

23 MS. DONALD: Nothing, Your Honor.

24 THE COURT: Okay.

25 MS. DONALD: Thank you.

1 MR. FINDLAY: Your Honor?

2 THE COURT: Yes.

3 MR. FINDLAY: Eric Findlay.

4 Very briefly, may a counsel that is not required be
5 permitted to quietly leave the courtroom to use the
6 facilities? I know we're trying to rush, but I've gotten a
7 look from somebody that I think he had too much coffee in the
8 morning and might need to take a quick break, if it's all
9 right with the Court.

10 THE COURT: Well, without getting more explicit on
11 the record, Mr. Findlay, why don't we take a five-minute
12 recess, we'll come back, and then we'll pick up where we left
13 off.

14 Court stands in recess.

15 (Brief recess.)

16 THE COURT: Be seated, please.

17 Before we move on, let's go back to the preceding claim
18 terminology, particularly 'phase characteristic/
19 characteristics'.

20 The only thing that I've seen emanating from Judge
21 Andrews on this is effectively a one-page order adopting this
22 construction. I don't see any real analysis there. I
23 understand the Delaware court's practice sometimes is to issue
24 a separate opinion from a separate construction order. I
25 don't know if there is a separate opinion that puts forward

1 his actual analysis as to how he reached this construction.
2 If there is, it would be beneficial for me to have an
3 opportunity to look at that. And it appears, from what I can
4 tell on the docket there, that the transcript from the
5 argument that related to this one-page order is sealed on the
6 docket there, so I don't have access to that either.

7 If there's something the parties can provide me here by
8 way of the underlying analysis, either from a copy of the
9 transcript that both sides could agree to ask the Delaware
10 court to unseal that you could share with me, or a separate
11 order setting forth his analysis rather than just the one-page
12 entry that adopts this construction, that would be helpful.
13 And to the extent both sides can meet and confer and come up
14 with a way to give me something else than what I have, I'd
15 appreciate it.

16 Mr. McAndrews, you're on your feet.

17 MR. McANDREWS: Yes, Your Honor. May I address that
18 just momentarily?

19 THE COURT: Certainly.

20 MR. McANDREWS: And I have the next term as well.

21 Your Honor, Judge Andrews did provide a detailed
22 analysis, but he did it orally on the record, and then the
23 very brief order came out after that. But he addressed his
24 analysis immediately following the conclusion of the live
25 testimony.

1 THE COURT: Would it be possible for both sides to
2 jointly ask the Court to unseal that portion of it for the
3 purpose of sharing it with me?

4 MR. McANDREWS: Yes, Your Honor.

5 At a minimum, we'll make sure that we can share it with
6 you, or we'll do our best to redact anything that somebody
7 thought might have been confidential about that hearing.

8 THE COURT: Defendants have any problem with that?

9 MR. STEVENS: No. I would only point out, Your
10 Honor, that Nokia is not involved with that. So it would be
11 nice if it's unsealed for you, we'd like to get a copy of it
12 as well.

13 THE COURT: Well, I'll leave those discussions to
14 everybody who's represented here in the room. My basic point
15 is I haven't had the benefit of Judge Andrews' analysis on
16 this and I'd like it. If it comes from the transcript, fine;
17 if it comes from some separate opinion as opposed to his
18 actual issued order, fine; but based on Mr. McAndrews'
19 statement, I assume just the section of the transcript where
20 he announced into the record the reasons behind the adoption
21 of this construction would be beneficial to me. And I'd like
22 to get it as quickly as possible. I don't want that to become
23 an impediment to me getting an opinion out in this case.

24 So I'll leave the rest of the process up to you-all, but
25 if you-all will work together and try and get me that, fine.

1 If you have some problem with that, I'm happy to talk to Judge
2 Andrews and see if he'll deal directly with me on it, but it
3 would probably be more appropriate for you-all to raise that
4 with the court there and communicate to the court there that
5 this Court has expressed a specific desire to see and have the
6 benefit of his analysis.

7 Okay?

8 MR. McANDREWS: Yes, Your Honor.

9 THE COURT: Okay. All right. Let's go on to
10 'substantially scramble, the phase characteristics of the
11 plurality of carrier signals'.

12 Since you're at the podium, Mr. McAndrews, why don't you
13 give me Plaintiff's view on this.

14 MR. McANDREWS: Yes, Your Honor.

15 So this is a rehash of the dispute in Delaware, although
16 I think in Delaware the Defendants took the position that the
17 term was indefinite. They -- you know, because occasionally a
18 term like 'substantially a matter of degree' can be viewed as
19 potentially indefinite if the specification doesn't tell you
20 how to measure what is 'substantially'.

21 In this case the patent specification does, in fact, do
22 that. There are a number of places in the patent
23 specification where it describes what it means to
24 substantially scramble a signal, and that is that it is
25 substantially scrambled when there is a reduced

1 peak-to-average power ratio, PAR, which is one of the issues
2 addressed by the family 4 patents is reducing the PAR of the
3 transmission signal.

4 I don't think we need a long, detailed explanation of the
5 technology behind that, but we see here in the patent
6 specification, both in the abstract and a couple of times
7 during the course of the description, that the term
8 'substantially scramble' is equated with 'reducing peak
9 average power ratio'.

10 Now, the Defendants have a concern with this term because
11 they say that it's merely claiming a result, and that's
12 actually not -- it's not true as an initial matter. I'll
13 separately address whether it's appropriate to describe what
14 could be characterized as a result in a claim construction or
15 even in a claim. But this actually includes the term 'adjust
16 the phase characteristics of the carrier signals by varying
17 amounts', so that's something that is actually describing
18 functionality; and then it's 'to produce a transmission signal
19 with a reduced peak-to-average power ratio'.

20 'To produce a transmission signal with a reduced
21 peak-to-average power ratio' is describing -- is further
22 enhancing and describing and limiting the 'adjust the phase
23 characteristics of the carrier signals by varying amounts'.
24 It is not merely claiming a result in the absence of the
25 functionality to support that in the claim, and that's why we

1 believe that the claim construction is appropriate in this
2 instance.

3 If we were to leave this simply as plain and ordinary
4 meaning, I'm very concerned that later on we're going to have
5 an *02 Micro* problem; possibly not on infringement, I'm
6 speculating here, but more likely on prior art where they're
7 going to point to something that doesn't substantially
8 scramble a signal and say, Well, there's some aspect of
9 scrambling and we're going to characterize that as
10 substantial.

11 So we believe that the district court in Delaware looked
12 at this term, considered whether it was definite, and
13 considered the totality of the construction and determined
14 that 'adjusting the phase characteristics by varying amounts'
15 was appropriate and to describe further what that
16 accomplishes.

17 So this is not necessarily something that comes from the
18 plain and ordinary meaning of the term; it comes from the
19 patent specification defining what is meant by 'substantially
20 scramble'.

21 And unless you have any questions, I'll turn it over.

22 THE COURT: The Defendants seem to say in what I've
23 read there that the Delaware court improperly imported
24 functional language from the specification.

25 Is there anything in response to that that you need to

1 tell me that you haven't already said?

2 MR. McANDREWS: No, Your Honor.

3 THE COURT: Okay. All right. Then let me hear from
4 the Defendants.

5 MS. DONALD: This is Katherine Donald again on
6 behalf of the Defendants.

7 Your Honor, the dispute here is different because in the
8 Delaware litigation both the parties were arguing about what
9 the actual intended result was, whereas here we're arguing
10 that it's improper to import the intended result into the
11 claim language when the claim language clearly does not
12 contemplate 'producing a transmission signal with a reduced
13 peak-to-average power ratio'. And this is the best evidenced
14 by the claim language itself, which is highlighted in pink on
15 the left and also by the part of the specification which the
16 -- TQ Delta does not cite to.

17 The phase scrambler combines the phase shift computed for
18 each carrier signal with the phase characteristic of that
19 carrier signal, and that is what it means to substantially
20 scramble the phase characteristics. And because the claim
21 language is not -- and because reducing the PAR value is not
22 inherent in the claim language, TQ Delta has to import that
23 intended result into the meaning.

24 And, Your Honor, on the next slide, what is illustrated
25 as figure 2 of the patent specification, and here this is just

1 one embodiment, but my point is simple. At step 115, you have
2 the computing the phase shift. At step 120, you have
3 combining the phase shift with the phase characteristic. This
4 is exactly what the claim language says and what the
5 specification contemplates. And at this point where the red
6 arrow is indicating is that you have substantially scrambled
7 the phase characteristics.

8 And as this diagram goes on, at step 130 you're going to
9 combine the carrier signals to produce a linear transmission
10 signal, and at this point you'll be able to see whether or not
11 the PAR is reduced. And, in theory, the PAR could actually
12 increase.

13 And so, Your Honor, another part of evidence in the
14 intrinsic record that supports our argument is the related
15 patent, U.S. Patent No. 7,292,627. It is a parent patent to
16 the '008 Patent. And on the left-hand side I've taken claims
17 1 and 2, and on the left-hand side I've highlighted almost
18 identical language to our asserted patents on the right-hand
19 side. However, in the parent patent, the patent had a
20 dependent claim which reduces the peak-to-average power ratio
21 as a result of substantially scrambling.

22 And so our argument is simple, Your Honor. They're
23 importing an intended result which may or may not happen,
24 and it's improper to do that.

25 THE COURT: All right.

1 MS. DONALD: Is there anything further, Your Honor?

2 THE COURT: No. I think I understand your argument.

3 MS. DONALD: Okay. Thank you.

4 THE COURT: Thank you.

5 All right. Let's go to 'same bit value', and we'll also
6 take up the 'multiple carrier signals corresponding to the
7 scrambled carrier signals that are used by the first
8 multicarrier transceiver to modulate the same bit value'.

9 And this will probably consume the rest of the allocated
10 time that the Court set aside for oral argument this morning.

11 Go ahead, Mr. McAndrews.

12 MR. McANDREWS: Thank you, Your Honor.

13 THE COURT: Defendants are telling me this is
14 indefinite. Why is that not right?

15 MR. McANDREWS: Right. So, Your Honor, so 'same bit
16 value' is being interpreted, and that's really the word that
17 drives both of these -- that's the phrase that drives both of
18 these terms. So there's nothing different about the remainder
19 of that other term other than its plain meaning that we're
20 advocating.

21 But -- so 'same bit value', it was interpreted in
22 Delaware to mean 'value of the same bit'. The analysis there
23 was, as it is here, the Defendants really haven't presented
24 any new argument. They argue that there are two ways to
25 interpret that. One of them is that two bits and one each

1 assigned to a different carrier would just happen to have the
2 same value. And what they say about that and they admit about
3 that, the absurdity of that is that if you have -- if you're
4 sending one bit values and if you have more than two carriers,
5 well, because you only have two choices of a bit value,
6 carrier one, for example, has a 1 on it; carrier two has a 0,
7 carrier three happens to carry a 1 again, now they're saying
8 that the claim is automatically met when, in fact, there's
9 nothing interesting about that. There's no reason to claim
10 that. There would be nothing -- there is no -- nothing novel
11 about that if we have -- if where he merely happen to have the
12 same value that goes on multiple carriers.

13 Instead, what the patent specification is describing is
14 where -- it's this situation here, Your Honor. So this is a
15 modified -- slightly modified version of the figure I showed
16 earlier where we had a first group of bits assigned to carrier
17 one, a second group of bits going to carrier two, the third
18 group of bits went to carrier three, and the fourth group of
19 bits went to carrier four. But even in that instance -- so
20 let's -- and I apologize. I'm going to scroll back here a
21 little bit and describe essentially what Defendants' position
22 is. There we go.

23 So their position would be that even though the second
24 grouping of bits in blue, 01, are not the same bits as the
25 orange group of bits, 01, they just happen to be the same,

1 and, therefore, we have values on two different carriers that
2 happen to be the same, when, in fact, what the patent
3 specification describes--and their expert witness Doctor
4 Zimmerman admits this--that it's all over the patent
5 specification in terms -- the intrinsic record. It's in the
6 provisional application, and they agree that it's described in
7 the patent specification that there's this concept of taking
8 the same bits and putting their value on two different
9 carriers. So it's showing here that the first grouping of
10 bits actually gets copied onto carrier one and carrier three.
11 That's the concept that the patent specification is
12 describing. And I don't think there's any dispute that the
13 patent specification is describing that embodiment.

14 The dispute is over their belief that 'same bit value'
15 means the first thing or the second thing. But in view of the
16 patent specification, in view of what the inventor was
17 describing as what was different about this than just standard
18 old modulation where you might by happenstance have values
19 that are the same on multiple carriers, he's describing where
20 multiple carrier signals are actually used to modulate the
21 same bit value. And we believe that that is best interpreted
22 as 'value of the same bits' as opposed to just happening to be
23 the value.

24 And Defendants point out that the patent specification
25 when -- the patent specification and the provisional

1 application use 'same bit', they say it doesn't use 'same bit
2 value', and that's their concern about the specification using
3 a different word than the claim, but the claim is actually
4 more accurate, because you don't modulate a bit position.
5 You're not telling the other side, Hey, this bit came from the
6 third position. You have to modulate the value. The value
7 has to be -- is what is modulated. And so by saying 'same bit
8 value' doesn't mean this is just any value; it still has to be
9 from the same bit. So it's the same bit, but it's a value
10 that gets modulated. The bit itself, you know, some empty
11 place that could hold anything you want it to hold, is not
12 what gets modulated.

13 THE COURT: Didn't you argue in Delaware that 'same
14 bit value' referred to 'bit position' rather than 'value'?
15 Are you arguing something different here than you argued
16 there?

17 MR. McANDREWS: You know, we're not, Your Honor, and
18 this is kind of -- this is a false dichotomy that was set up
19 in the response brief. 'Bit position' -- the reason why 'bit
20 position' was being addressed in Delaware is it was talking
21 about the value that resides in a particular position. So if
22 -- looking at the screen here, bit position 1 has a 0 in it.
23 Bit position two has a 1 in it. Bit position three has a 1 in
24 it. Bit position four has a 0 in it. The idea is that it's
25 those same -- it's the value that comes from that bit position

1 that is modulated on to multiple carriers. The bit position
2 itself isn't what goes on there. So there's a little bit of
3 confusion here.

4 We have been consistent I believe, Your Honor, in
5 arguing -- so, first of all, they're not two different things.
6 To say 'bit position' versus 'value of the same bit', they're
7 not the same thing. We intended them to mean the same thing
8 in the sense that it's the value that comes from a particular
9 bit position that goes on to multiple carriers. So it's the
10 value of the same bit that goes onto multiple carriers. So we
11 didn't intend them to mean different things.

12 Defendants' responsive brief, for some reason they set up
13 this false dichotomy, and I think they actually said that we
14 argued something other than 'value of the same bit' in
15 Delaware. I mean, that was what we proposed and that's what
16 Judge Andrews adopted was 'value of the same bit'.

17 It just -- and understandably, there can be some
18 confusion here, but the way to explain it best by an expert
19 would be to say you take the bit from position one and copy
20 that on to two carriers. It's not by happenstance that bit
21 position one and bit position four are 0s and they wind up on
22 different carriers. That's not what the claim is talking
23 about. The claim is talking about taking the value from the
24 same bit position and copying it onto multiple carriers.

25 THE COURT: Okay.

1 MR. McANDREWS: So we think that the specification
2 makes it clear what the inventor intended as his invention.
3 'Same bit value' is best clarified for purposes of resolving
4 this dispute as 'value of the same bit'.

5 THE COURT: Thank you.

6 Let me hear from Defendants on this.

7 MR. HAYNES: Thank you, Your Honor. John Haynes for
8 Defendants.

9 THE COURT: Go ahead, Mr. Haynes.

10 MR. HAYNES: We just heard recognition that this
11 claim is confusing, and that is the problem. Now, they may
12 have wished they had drafted a claim that said 'mapping the
13 same bit to multiple carriers', but that's not what they wrote
14 down in the claim. In this claim they said 'same bit value',
15 and there's only two possibilities for that value--1 or 0.
16 'Same bit value' means you're taking a 1 or a 0 and you're
17 mapping it to multiple carriers. That's one possible
18 interpretation.

19 Now, we don't disagree that what he just described is
20 also a possible interpretation, and the problem we have is the
21 spec doesn't tell you which is correct. You don't know with
22 reasonable certainty whether 'same bit value' is talking about
23 a value of a 1 or a 0 or whether it's talking about a specific
24 bit in that chain.

25 So there are two possible interpretations here and

1 they're both reasonable, and the spec actually supports both
2 and I'll show you where that is. And when you're in that
3 situation, it's not your job to try to rewrite the claim to
4 make it what the inventors may have intended from their
5 invention. The question is what does the claim say, and can a
6 person of ordinary skill in the art reading the specification
7 determine which of these two things is correct.

8 So let's talk about the first interpretation, and this is
9 the question of 'same bit value'. If you look at those words,
10 the value in this system is a 1 or a 0. Nobody disputes that.
11 And one of the problems that the patent explains is that when
12 you have a system where you're mapping all your points to a 1
13 or a 0, you end up with this situation where you have too many
14 1s and too many 0s, and that causes this peak-to-average power
15 ratio problem.

16 And so one way you can cause it under the first
17 interpretation is if you end up with bunch of bit streams get
18 mapped to carriers, and it happens that you've got 1s straight
19 down the line. Now you're modulating a whole bunch of 1s and
20 that's going to cause a peak-to-average power ratio problem,
21 and that's what the spec identifies as one possible
22 problem--you don't have enough variance in your mappings. And
23 when you don't have enough variance in your mappings, you
24 know, different values. Right? You're not mapping to .1, .2,
25 .3, .4, .5, and then you run into this problem. And so their

1 solution to that problem is this phase scrambler.

2 So that's one reasonable interpretation--that the 'value
3 of the same bit' means exactly what those words say, or the
4 'same bit value' means exactly what that says, which is a 1 or
5 a 0, so you're mapping a 1 or a 0 to multiple carriers.
6 That's one of the problems they identify.

7 The second interpretation is the one that Plaintiff's
8 counsel just explained, which is you have the situation where
9 you have the input bit stream and you essentially map the same
10 bit to multiple carriers, and because you're mapping the same
11 bit, that bit also has a value of a 1 or a 0, but in this
12 instance you're actually taking that bit and putting it on
13 multiple carriers. That also causes a PAR problem. Right?
14 And you need scrambling to fix that.

15 And that's the construction they say you should write
16 into the claim, is that 'same bit value' means 'value of the
17 same bit', which I took from the discussion today they're
18 basically saying means 'same bit'. The problem is the claim
19 doesn't say 'same bit'; it says 'same bit value', and it's
20 those words that create this ambiguity.

21 And when you have that ambiguity, two reasonable
22 constructions of the same term in light of the specification,
23 that means the claim is indefinite. He wants you to resolve
24 that ambiguity based on the intent of the inventor, but the
25 spec supports both. And if you look in the briefing, when it

1 talks about a bit value, it always talks about one of two
2 things. It either talks about a 0 bit value or a 1 bit value.
3 And we looked at that language a second ago. Right? In the
4 places where it talks about bit values, it says 0 value for a
5 data bit corresponding to 90 degrees or a 1 value for a data
6 bit corresponding to minus 90 degrees.

7 Now, in terms of Plaintiff's proposed construction of
8 'value of the same bit', it doesn't solve the ambiguity. If
9 you have a construction that says 'value of the same bit', I
10 don't know, am I talking about the fact that it happens to be
11 a 1--that's the value of the bit--or am I talking about the
12 fact that it is the same bit, which means the same bit
13 position and the value of the bit in that position? And
14 there's nothing in the claims or the spec that allows me to
15 look at that term 'same bit value' and choose between them,
16 and that's a problem. It is confusing.

17 You heard Plaintiff's counsel say multiple times, "This
18 is confusing." A person of ordinary skill in the art reading
19 this patent is going to be confused. It is not going to --
20 they will not know with reasonable certainty which of these
21 meanings was intended, and that means it has to be indefinite.

22 THE COURT: All right. Anything further from the
23 Plaintiff on this?

24 MR. McANDREWS: No, Your Honor.

25 I did want to point out, and I should have said this --

1 THE COURT: Go to the podium, please.

2 MR. McANDREWS: I'm sorry.

3 I should have pointed this out when I first came up.

4 There was some typographical errors that occurred in our
5 construction. What happened is when the Plaintiff's proposed
6 a construction for this particular term, we accidentally
7 pulled a construction for a 'demodulate' term from the
8 Delaware district court decision on the family 4 patents. We
9 pulled it from -- and I believe it's the '048 Patent addresses
10 essentially descrambling a signal rather than scrambling a
11 signal, and so it talked about receiving the same bit value.

12 And I think what we ought to do, and if you could pull
13 this up, this right here shows the mistake that was made.
14 This is actually the way that our construction needs to be
15 modified. It accidentally addressed 'demodulating' and the
16 'received bit stream' rather than the way it should have been,
17 which is -- well, I guess I didn't repeat -- what remains
18 after this redline is what the proposed construction should
19 have been.

20 I believe the Defendants recognized this as an error, and
21 so I don't think there's a point of contention over this.
22 Their witness actually -- their expert witness actually
23 commented that it looked like we made a mistake and we
24 intended to say 'modulate'. And it would have been on the
25 transmitter side.

1 So I just wanted to point this out that we didn't intend
2 to give a 'received' definition for what's going on at the
3 transmitter, which is 'modulating', not 'demodulating'.

4 THE COURT: Okay. I appreciate that. It would have
5 been nice to have that earlier, but better late than never.

6 MR. McANDREWS: Sorry about that, Your Honor. We
7 noticed it last night.

8 THE COURT: Mr. Haynes, I'll give you the last word
9 on this.

10 MR. HAYNES: If we could bring the last slide up,
11 the one you had just now. Yeah.

12 The change to their construction that -- they did give us
13 notice of this last night, Your Honor, and we weren't sure
14 whether they were going to propose it or not. The change in
15 the construction actually makes the ambiguity worse because
16 now we're talking about the value of a bit and they've deleted
17 that the bit is of the received bit stream. That creates even
18 more ambiguity of whether I'm talking about just a value of 1
19 or a 0, because now I'm removing myself even further from the
20 notion of same bit.

21 And again, this change and the fact that they focused on
22 'demodulating', when you look at the Delaware court's argument
23 and the discussion in Delaware, they were very focused on this
24 'demodulation' term. And if you look at Judge Andrews'
25 reasoning, he explains that -- and adopted this construction

1 because he viewed this as, I'm demodulating the same thing
2 that I modulated on the other side, and that was his reasoning
3 why it needs to be a 'value of the same bit'.

4 That resolution, however, doesn't really address the
5 problem we're talking about, which is when you're talking
6 about 'modulating', are you modulating a 1 because it is the
7 same bit, or are you modulating a 1 because that is the value
8 of the bit that has to be on two different carriers. So Judge
9 Andrews' reasoning doesn't actually address the problem.

10 We agree that if you put a 1 on the left, you're going to
11 demodulate a 1 on the right, and the transmitter -- if you
12 transmit a 1, you're going to try to demodulate a 1 on the
13 receiver. But that doesn't resolve the issue. The issue is,
14 is the 1 I'm putting there a 1 because it's the same bit --

15 THE COURT: I know. We're back to your same
16 argument.

17 MR. HAYNES: Thank you, Your Honor.

18 THE COURT: I understand. Thank you.

19 Counsel, that consumes all the time the Court's allocated
20 on oral argument on these claim construction issues this
21 morning, or I guess it's this afternoon now. The remainder of
22 what's in dispute that's been submitted the Court will take up
23 and address on the papers.

24 These matters are under submission. I'll attempt to get
25 you some written guidance by way of a claim construction

1 opinion as soon as practical. I would like for you-all to act
2 promptly and see if you can get me that additional analysis
3 from Delaware that I asked for.

4 Those are all the matters that I have set this morning.
5 Is there anything that either side needs to raise with the
6 Court? As I mentioned to you in chambers, I will get you a
7 written order on the clarification as to the Court's order on
8 narrowing, and I addressed that with you off the record in
9 chambers, but I'll get you a written order on that shortly.

10 If there's not anything further, as I say, these are
11 under submission, the Court stands in recess, and you're
12 excused.

13 (End of hearing.)

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1 I HEREBY CERTIFY THAT THE FOREGOING IS A
2 CORRECT TRANSCRIPT FROM THE RECORD OF
3 PROCEEDINGS IN THE ABOVE-ENTITLED MATTER.
4 I FURTHER CERTIFY THAT THE TRANSCRIPT FEES
5 FORMAT COMPLY WITH THOSE PRESCRIBED BY THE
6 COURT AND THE JUDICIAL CONFERENCE OF THE
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